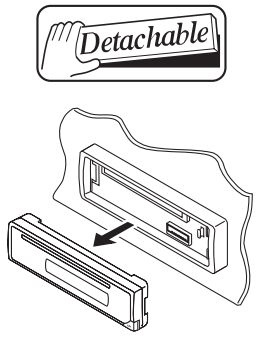
JVC

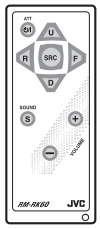
SERVICE MANUAL

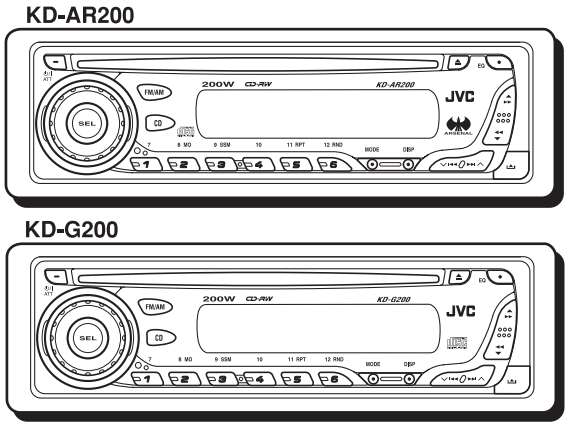
CD RECEIVER

KD-G200, KD-AR200

Area suffix
J ---------- Northern America







COMPACT disc DIGITAL AUDIO

CD-RW

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No.MA030
2003/12

SPECIFICATION

AUDIO AMPLIFIER SECTION		
Maximum Power Output	Front	50 W per channel
	Rear	50 W per channel
Continuous Power Output (RMS)	Front	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
	Rear	19 W per channel into 4 Ω, 40 Hz to 20 000 Hz at no more than 0.8% total harmonic distortion.
Load Impedance		4 Ω (4 Ω to 8 Ω allowance)
Tone Control Range	Bass	±10 dB at 100 Hz
	Treble	±10 dB at 10 kHz
Frequency Response		40 Hz to 20 000 Hz
Signal-to-Noise Ratio		70 dB
Line-Out Level/Impedance		2.0 V/20 kΩ load (full scale)
Output Impedance		1 kΩ
TUNER SECTION		
Frequency Range	FM	87.5 MHz to 107.9 MHz
	AM	530 kHz to 1 710kHz
[FM Tuner]	Usable Sensitivity	11.3 dBf (1.0 μV/75 Ω)
	50 dB Quieting Sensitivity	16.3 dBf (1.8 μV/75 Ω)
	Alternate Channel Selectivity (400 kHz)	65 dB
	Frequency Response	40 Hz to 15 000 Hz
	Stereo Separation	35 dB
	Capture Ratio	1.5 dB
[AM Tuner]	Sensitivity	20 μV
	Selectivity	35 dB
CD PLAYER SECTION		
Type		Compact disc player
Signal Detection System		Non-contact optical pickup (semiconductor laser)
Number of channels		2 channels (stereo)
Frequency Response		5 Hz to 20 000 Hz
Dynamic Range		96 dB
Signal-to-Noise Ratio		98 dB
Wow and Flutter		Less than measurable limit
GENERAL		
Power Requirement	Operating Voltage	DC 14.4 V (11 V to 16 V allowance)
Grounding System		Negative ground
Allowable Operating Temperature		0ºC to +40ºC (32ºF to 104ºF)
Dimensions (W × H × D)	Installation Size (approx.)	182 mm × 52 mm × 150 mm (7-3/16" × 2-1/16" × 5-15/16")
	Panel Size (approx.)	188 mm × 58 mm × 11 mm (7-7/16" × 2-5/16" × 7/16")
Mass (approx.)		1.3 kg (2.9 lbs) (excluding accessories)

Design and specifications are subject to change without notice.

SECTION 1
PRECAUTION

1.1 Safety Precautions

> ⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

> ⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

1.2 Preventing static electricity

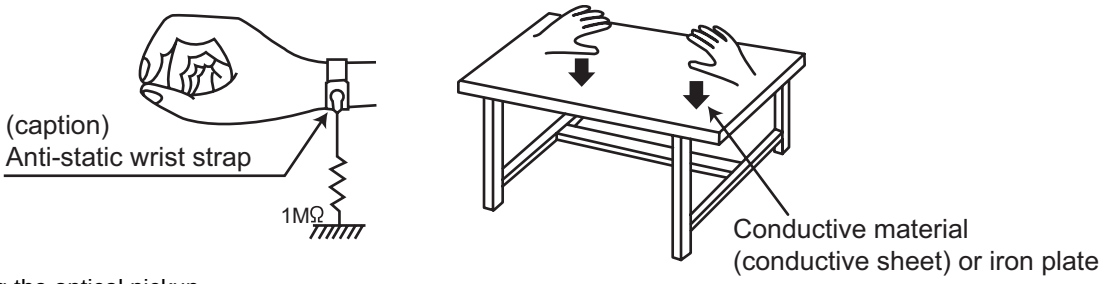
Electrostatic discharge (ESD), which occurs when static electricity stored in the body, fabric, etc. is discharged, can destroy the laser diode in the traverse unit (optical pickup). Take care to prevent this when performing repairs.

1.2.1 Grounding to prevent damage by static electricity

Static electricity in the work area can destroy the optical pickup (laser diode) in devices such as CD players.
Be careful to use proper grounding in the area where repairs are being performed.

(1) Ground the workbench
Ground the workbench by laying conductive material (such as a conductive sheet) or an iron plate over it before placing the traverse unit (optical pickup) on it.

(2) Ground yourself
Use an anti-static wrist strap to release any static electricity built up in your body.



(3) Handling the optical pickup
- In order to maintain quality during transport and before installation, both sides of the laser diode on the replacement optical pickup are shorted. After replacement, return the shorted parts to their original condition. (Refer to the text.)
- Do not use a tester to check the condition of the laser diode in the optical pickup. The tester's internal power source can easily destroy the laser diode.

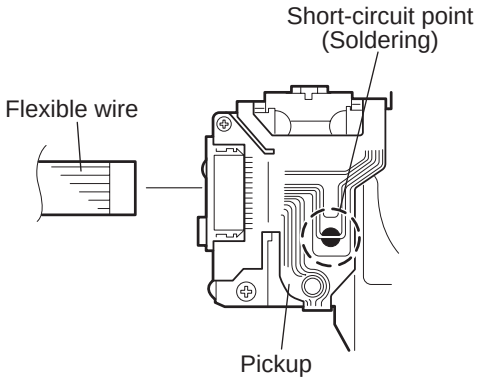
1.3 Handling the traverse unit (optical pickup)

(1) Do not subject the traverse unit (optical pickup) to strong shocks, as it is a sensitive, complex unit.
(2) Cut off the shorted part of the flexible cable using nippers, etc. after replacing the optical pickup. For specific details, refer to the replacement procedure in the text. Remove the anti-static pin when replacing the traverse unit. Be careful not to take too long a time when attaching it to the connector.
(3) Handle the flexible cable carefully as it may break when subjected to strong force.
(4) It is not possible to adjust the semi-fixed resistor that adjusts the laser power. Do not turn it.

1.4 Attention when traverse unit is decomposed

***Please refer to "Disassembly method" in the text for the CD pickup unit.**

- Apply solder to the short land before the flexible wire is disconnected from the connector on the CD pickup unit. (If the flexible wire is disconnected without applying solder, the CDpickup may be destroyed by static electricity.)
- In the assembly, be sure to remove solder from the short land after connecting the flexible wire.



SECTION 2
SPECIFIC SERVICE INSTRUCTIONS

This service manual does not describe SPECIFIC SERVICE INSTRUCTIONS.

SECTION 3
DISASSEMBLY

3.1 Main body

3.1.1 Removing the front panel assembly (See Fig.1)

(1) Push the detach button in the lower right part of the front panel assembly and remove the front panel assembly.

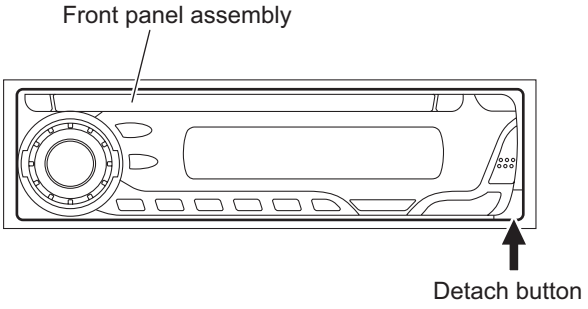


Fig.1

3.1.2 Removing the bottom cover (See Fig.2)

(1) Turn the main body up side down.
(2) Insert a screwdriver under the joints to release the two joints **a** on the left side, two joints **b** on the right side and joint **c** on the back side of the main body, then remove the bottom cover from the main body.

CAUTION:

When releasing the joints using a screwdriver, do not damage the main board.

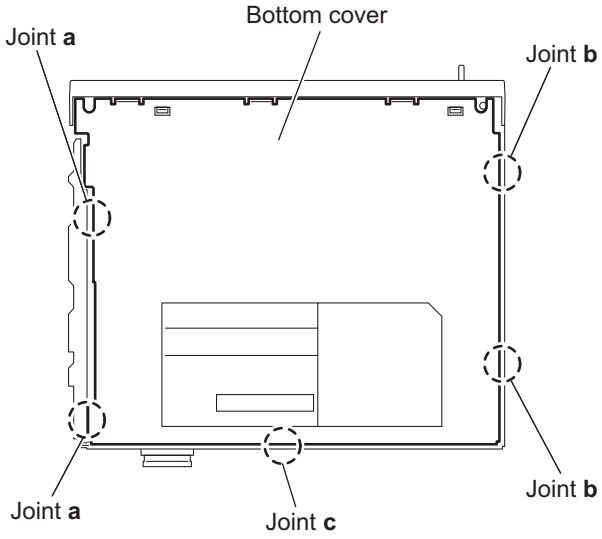


Fig.2

3.1.3 Removing the front chassis assembly (See Fig.3)

- Prior to performing the following procedures, remove the front panel assembly and bottom cover.
  (1) Remove the screw **A** on the both sides of the main body.
  (2) Release the two joints **d** and two joints **e** on the both sides of the main body, then remove the front chassis assembly toward the front.

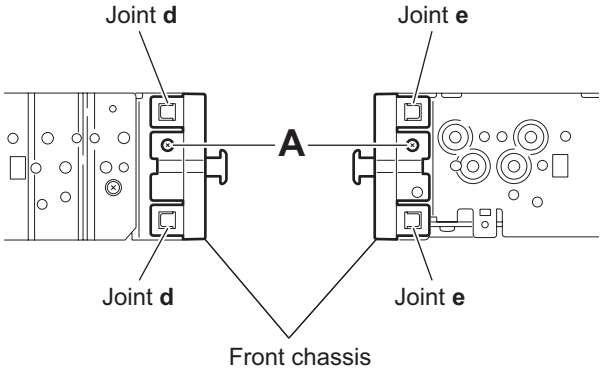


Fig.3

3.1.4 Removing the side panel (See Fig.4)

- Prior to performing the following procedure, remove the front panel assembly as required.
  (1) Remove the screw **B** and two screws **C** attaching the heat sink on the left side of the main body, and remove the side panel.

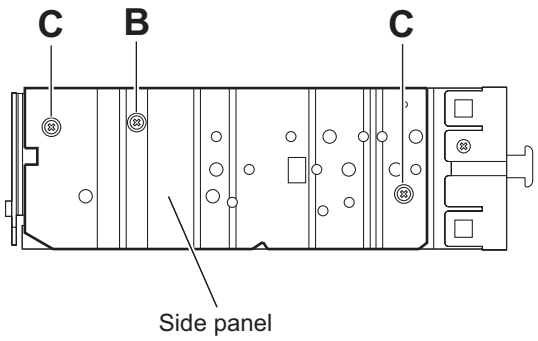


Fig.4

3.1.5 Removing the rear bracket (See Fig.5)

- Prior to performing the following procedure, remove the bottom cover.
  (1) Remove the three screws **D**, three screws **E** and two screws **F** attaching the rear bracket on the back side of the main body.
  (2) Remove the rear bracket.

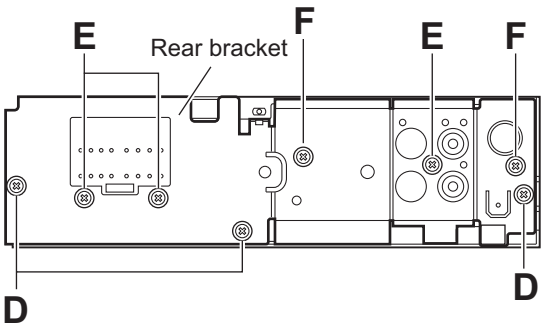


Fig.5

3.1.6 Removing the main board (See Fig.6)

- Prior to performing the following procedure, remove the front panel assembly, front chassis assembly, side panel, bottom cover and rear bracket.
  (1) Remove the two screws **G** attaching the main board.
  (2) Disconnect the connector CN501 and remove the main board.

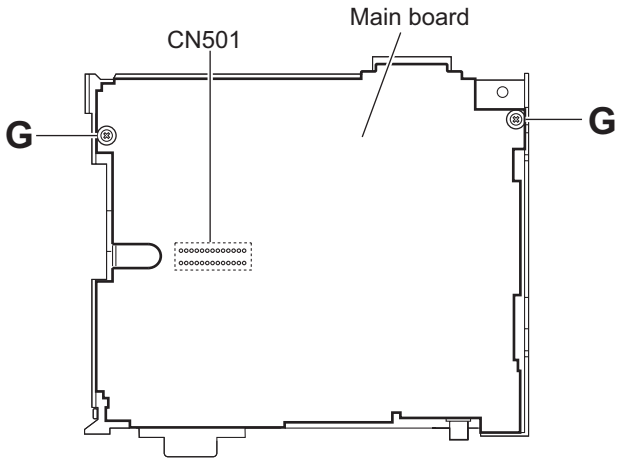


Fig.6

3.1.7 Removing the CD mechanism assembly (See Fig. 7)

- Prior to performing the following procedure, remove the front panel assembly, front chassis assembly, side panel, bottom cover, rear bracket, main board and CD mechanism board.
  (1) Remove the three screws **H** attaching the top chassis.
  (2) Take out the CD mechanism assembly.

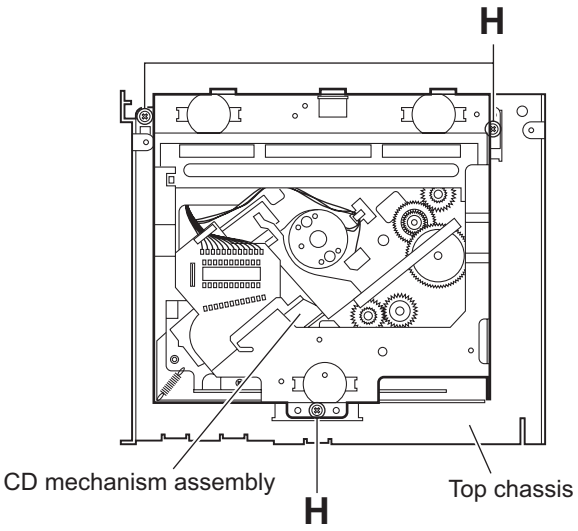


Fig.7

3.1.8 Removing the front board (See Figs.8 to 10)

- Prior to performing the following procedure, remove the front panel assembly.
  (1) Remove the four screws **J** on the back side of the front panel assembly. (See Fig.8.)
  (2) Release the ten joints **f**. (See Fig.9.)
  (3) Release the joint **g** and take out the front board. (See Fig.10.)

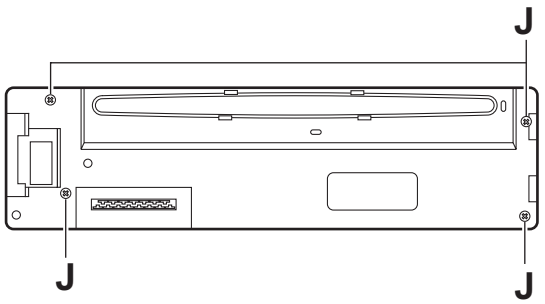


Fig.8

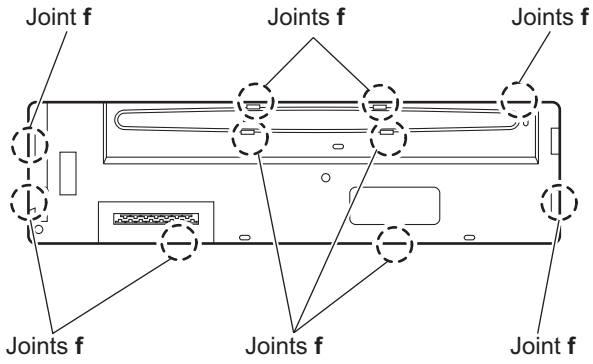


Fig.9

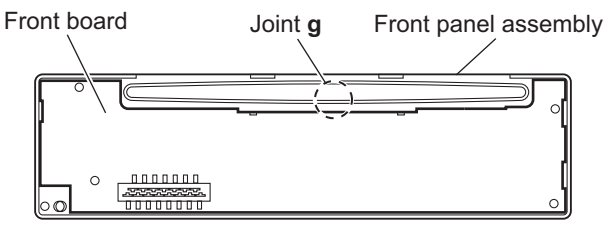


Fig.10

3.2 CD Mechanism Assembly

3.2.1 Removing the top cover (See Figs.1 and 2)

(1) Remove the two screws **A** on the both side of the body.
(2) Lift the front side of the top cover and move the top cover backward to release the two joints **a**.

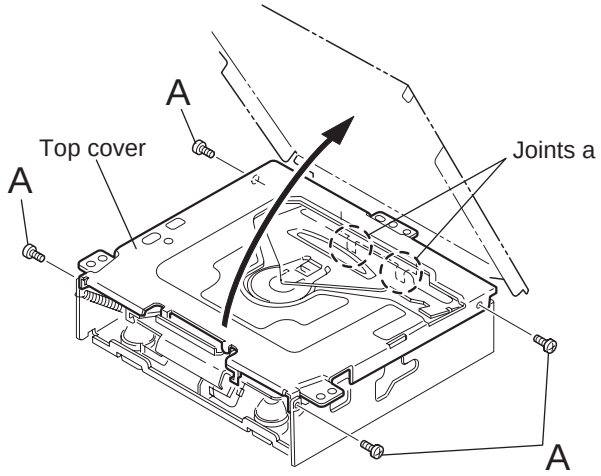


Fig.1

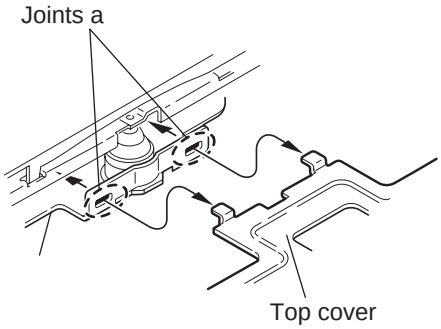


Fig.2

3.2.2 Removing the connector board (See Figs.3 to 5)

CAUTION:

Before disconnecting the flexible wire from the pickup, solder the short-circuit point on the pickup. No observance of this instruction may cause damage of the pickup.

(1) Remove the screw **B** fixing the connector board.
(2) Solder the short-circuit point on the connector board.
(3) Disconnect the flexible wire from the pickup.
(4) Move the connector board in the direction of the arrow to release the two joints **b**.
(5) Unsolder the wire on the connector board if necessary.

CAUTION:

Unsolder the short-circuit point after reassembling.

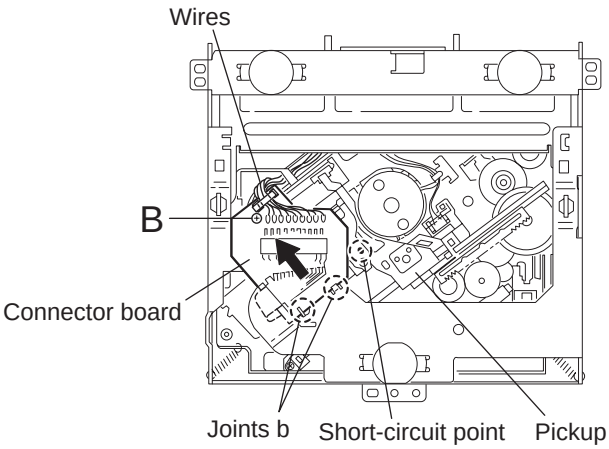


Fig.3

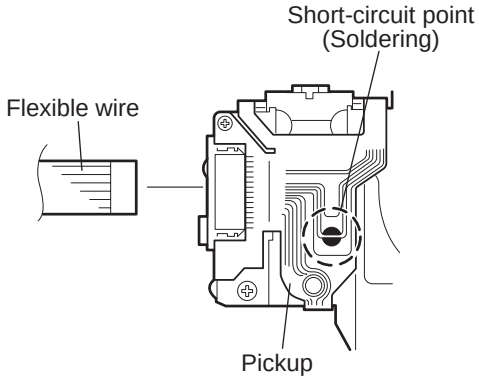


Fig.4

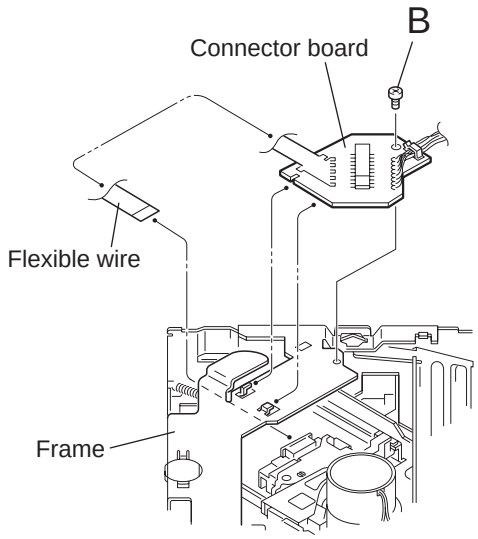


Fig.5

3.2.3 Removing the DET switch (See Figs.6 and 7)

(1) Extend the two tabs **c** of the feed sw. holder and pull out the switch.
(2) Unsolder the DET switch wire if necessary.

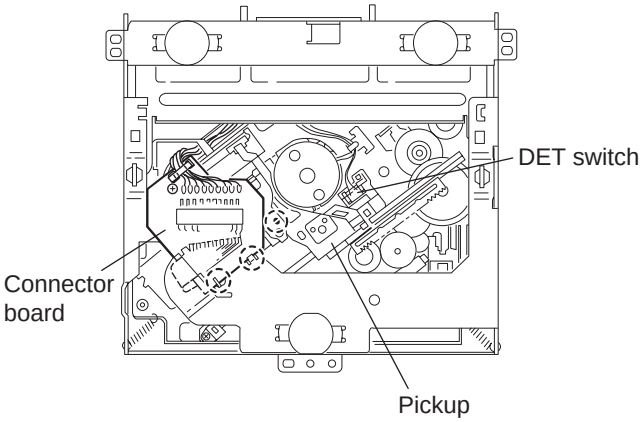


Fig.6

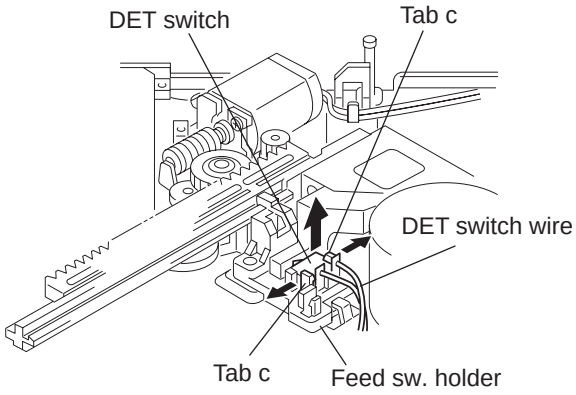


Fig.7

3.2.4 Removing the chassis unit (See Figs.8 and 9)

- Prior to performing the following procedure, remove the top cover and connector board.
  (1) Remove the two suspension springs (L) and (R) attaching the chassis unit to the frame.

CAUTION:

- The shape of the suspension spring (L) and (R) are different. Handle them with care.
- When reassembling, make sure that the three shafts on the underside of the chassis unit are inserted to the dampers certainly.

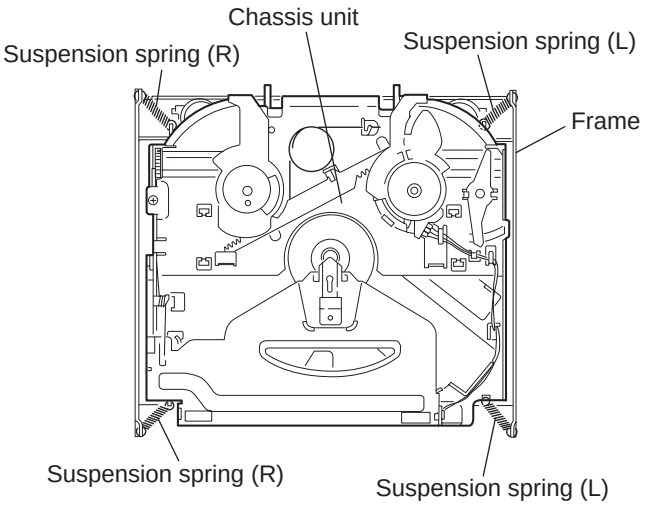


Fig.8

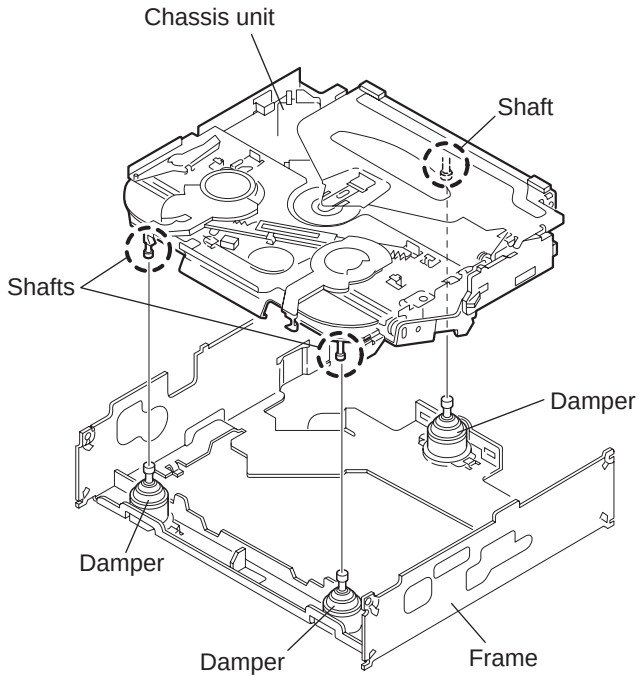


Fig.9

3.2.5 Removing the clamper assembly (See Figs.10 and 11)

- Prior to performing the following procedure, remove the top cover.
  (1) Remove the clamper arm spring.
  (2) Move the clamper assembly in the direction of the arrow to release the two joints **d**.

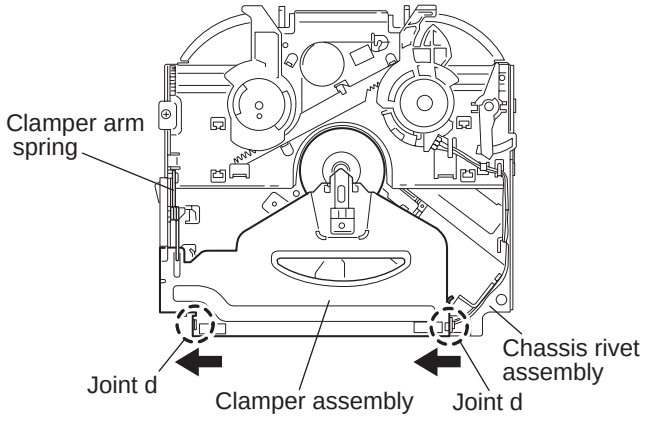


Fig.10

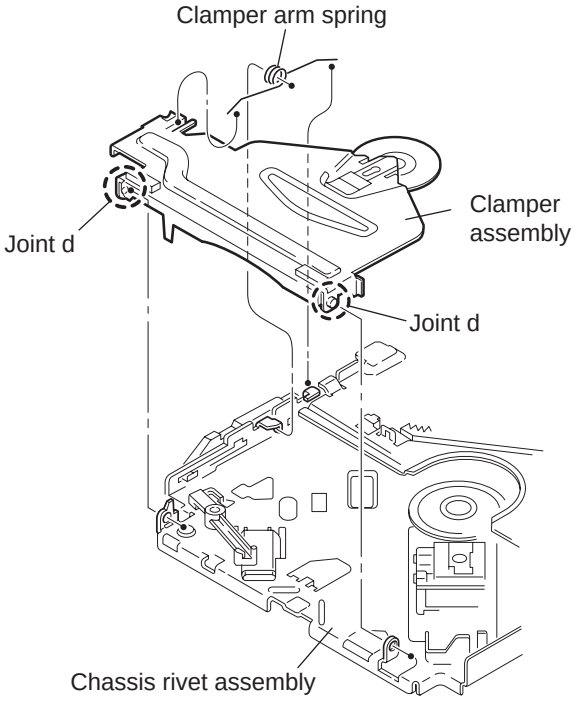


Fig.11

3.2.6 Removing the loading / feed motor assembly (See Figs.12 and 13)

- Prior to performing the following procedure, remove the top cover, connector board and chassis unit.
  (1) Remove the screw **C** and move the loading / feed motor assembly in the direction of the arrow to remove it from the chassis rivet assembly.
  (2) Disconnect the wire from the loading / feed motor assembly if necessary.

  CAUTION:
  When reassembling, connect the wire from the loading / feed motor assembly to the flame as shown in Fig.12.

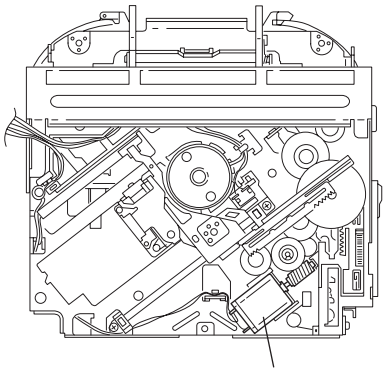


Fig.12

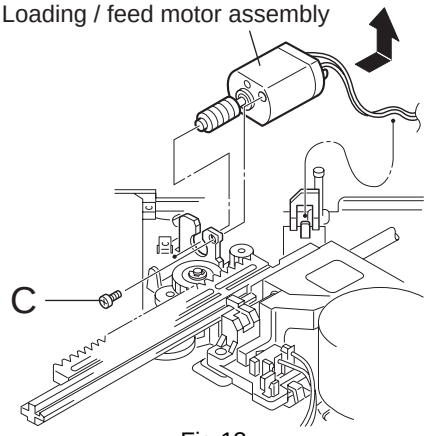


Fig.13

3.2.7 Removing the pickup unit (See Figs.14 to 18)

- Prior to performing the following procedure, remove the top cover, connector board and chassis unit.
  (1) Remove the screw **D** and pull out the pu. shaft holder from the pu. shaft.
  (2) Remove the screw **E** attaching the feed sw. holder.
  (3) Move the part **e** of the pickup unit upward with the pu. shaft and the feed sw. holder, then release the joint f of the feed sw. holder in the direction of the arrow. The joint **g** of the pickup unit and the feed rack is released, and the feed sw. holder comes off.
  (4) Remove the pu. shaft from the pickup unit.
  (5) Remove the screw **F** attaching the feed rack to the pickup unit.

3.2.8 Reattaching the pickup unit (See Figs.14 to 17)

(1) Reattach the feed rack to the pickup unit using the screw **F**.
(2) Reattach the feed sw. holder to the feed rack while setting the joint g to the slot of the feed rack and setting the part f of the feed rack to the switch of the feed sw. holder correctly.
(3) As the feed sw. holder is temporarily attached to the pickup unit, set to the gear of the joint g and to the bending part of the chassis (joint **h**) at a time.

CAUTION:

Make sure that the part i on the underside of the feed rack is certainly inserted to the slot j of the change lock lever.

(4) Reattach the feed sw. holder using the screw **E**.
(5) Reattach the pu. shaft to the pickup unit. Reattach the pu. shaft holder to the pu. shaft using the screw **D**.

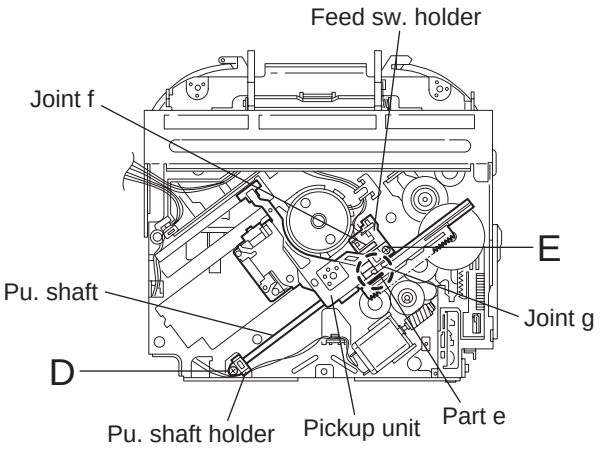


Fig.14

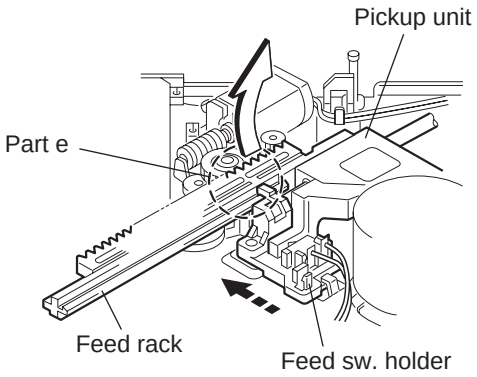


Fig.15

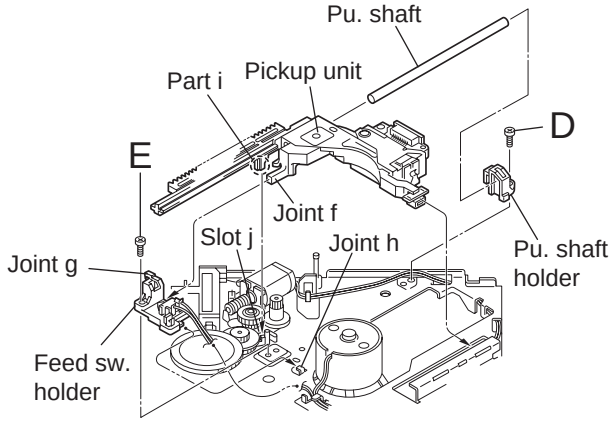


Fig.16

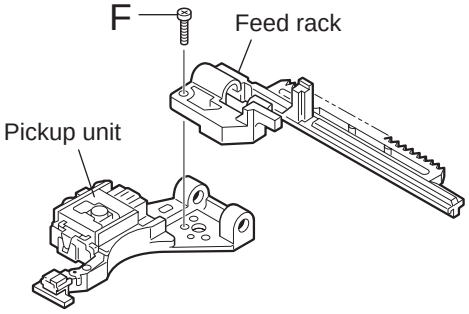


Fig.17

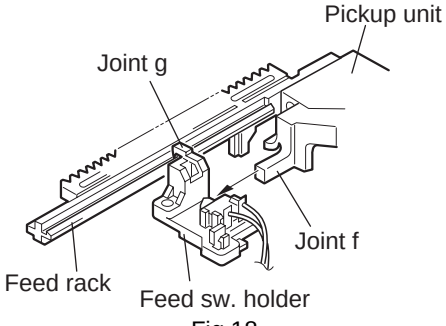


Fig.18

3.2.9 Removing the trigger arm (See Figs.19 and 20)

- Prior to performing the following procedure, remove the top cover, connector board and clamper unit.
  (1) Turn the trigger arm in the direction of the arrow to release the joint k and pull out upward.

CAUTION:

When reassembling, insert the part m and n of the trigger arm into the part p and q at the slot of the chassis rivet assembly respectively and join the joint k at a time.

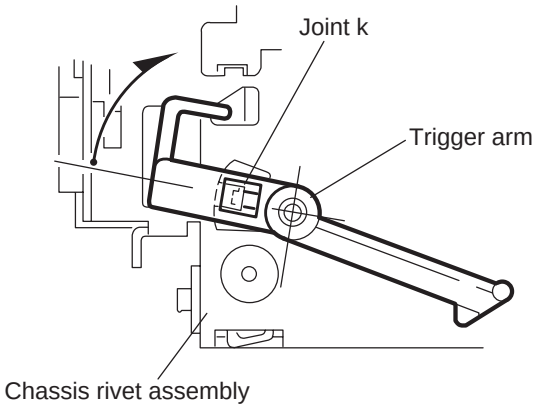


Fig.19

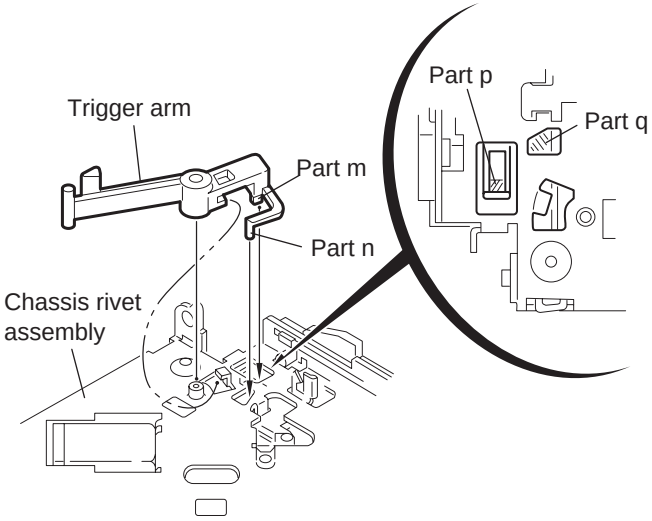


Fig.20

3.2.10 Removing the top plate assembly (See Fig.21)

- Prior to performing the following procedure, remove the top cover, connector board, chassis unit, and clamper assembly.
  (1) Remove the screw **H**.
  (2) Move the top plate assembly in the direction of the arrow to release the two joints r.
  (3) Unsolder the wire marked s if necessary.

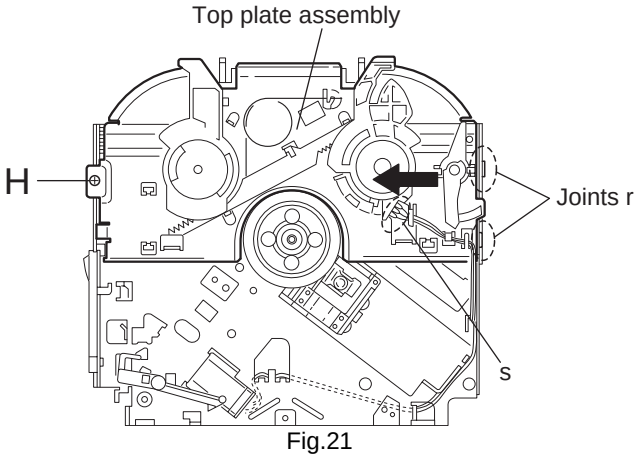


Fig.21

3.2.11 Removing the mode sw. / select lock arm (See Figs.22 and 23)

- Prior to performing the following procedure, remove the top plate assembly.
  (1) Bring up the mode sw. to release from the link plate (joint **t**) and turn in the direction of the arrow to release the joint **u**.
  (2) Unsolder the wire of the mode sw. marked s if necessary.
  (3) Turn the select lock arm in the direction of the arrow to release the two joints **v**.
  (4) The select lock arm spring comes off the select lock arm at the same time.

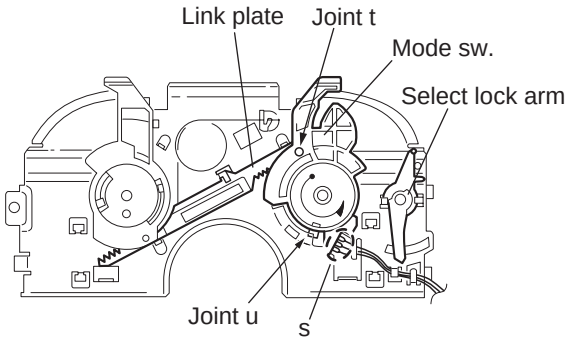


Fig.22

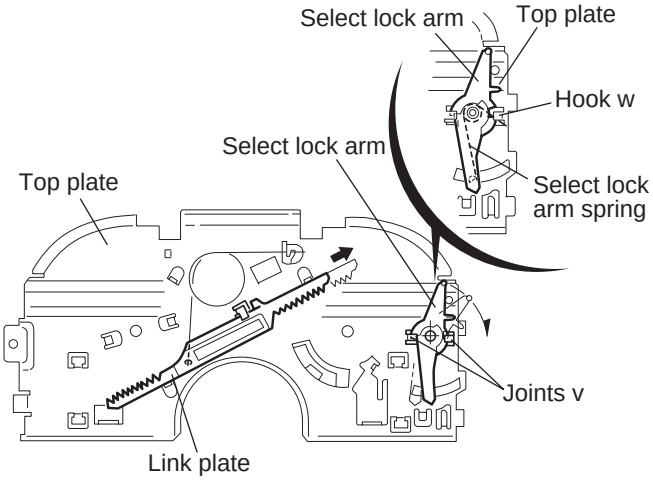


Fig.23

3.2.12 Reassembling the mode sw. / select lock arm (See Figs.24 to 26)

REFERENCE:

Reverse the above removing procedure.

(1) Reattach the select lock arm spring to the top plate and set the shorter end of the select lock arm spring to the hook w on the top plate.

(2) Set the other longer end of the select lock arm spring to the boss x on the underside of the select lock arm, and join the select lock arm to the slots (joint **v**). Turn the select lock arm as shown in the figure.

(3) Reattach the mode sw. while setting the part t to the first peak of the link plate gear, and join the joint **u**.

CAUTION:

When reattaching the mode sw., check if the points y and z are correctly fitted and if each part operates properly.

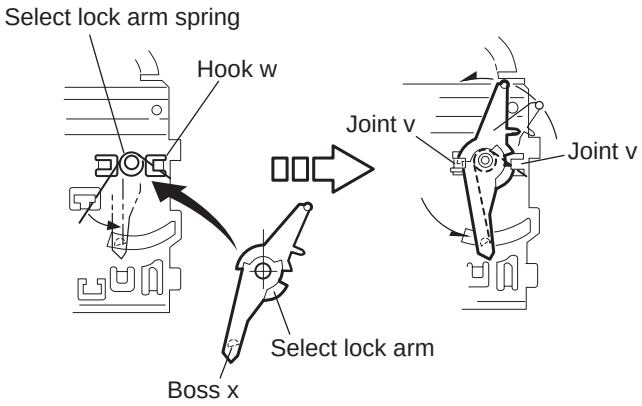


Fig.24

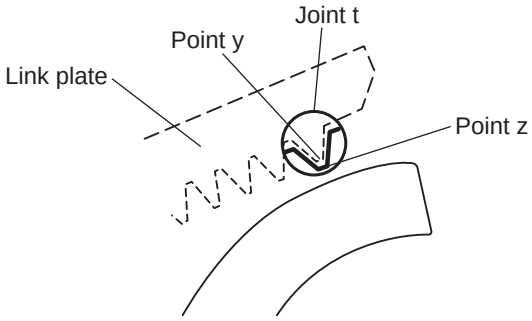


Fig.25

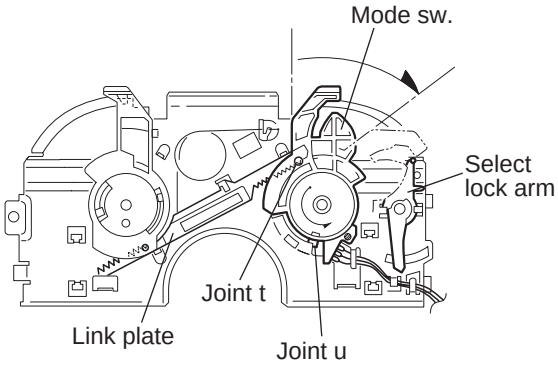


Fig.26

3.2.13 Removing the select arm R / link plate (See Figs.27 and 28)

- Prior to performing the following procedure, remove the top plate assembly.
  (1) Bring up the select arm R to release from the link plate (joint a') and turn as shown in the figure to release the two joints **b'** and joint **c'**.
  (2) Move the link plate in the direction of the arrow to release the joint d'. Remove the link plate spring at the same time.

REFERENCE:

Before removing the link plate, remove the mode sw..

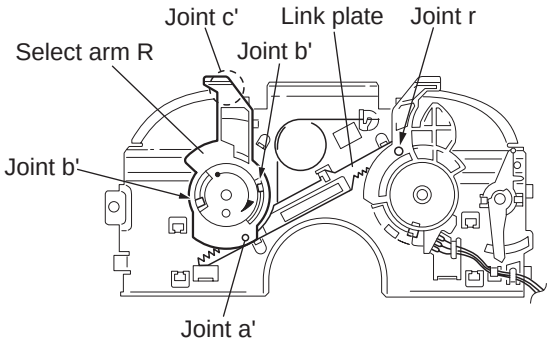


Fig.27

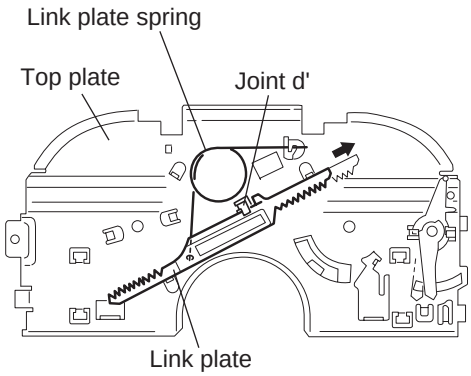


Fig.28

3.2.14 Reattaching the Select arm R / link plate (See Figs.29 and 30)

REFERENCE:

Reverse the above removing procedure.

(1) Reattach the link plate spring.
(2) Reattach the link plate to the link plate spring while joining them at joint **d'**.
(3) Reattach the joint a' of the select arm R to the first peak of the link plate while joining the two joints b' with the slots. Then turn the select arm R as shown in the figure. The top plate is joined to the joint **c'**.

CAUTION:

When reattaching the select arm R, check if the points **e'** and **f'** are correctly fitted and if each part operates properly.

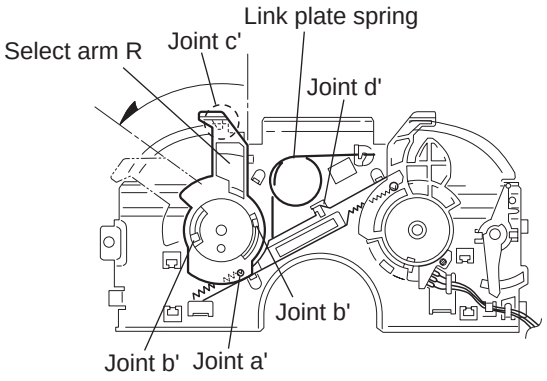


Fig.29

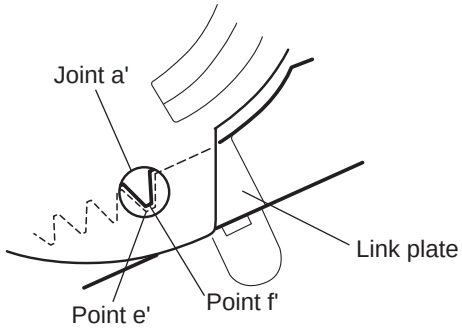


Fig.30

3.2.15 Removing the loading roller assembly (See Figs.31 to 33)

- Prior to performing the following procedure, remove the clamper assembly and top plate assembly.

(1) Push inward the loading roller assembly on the gear side and detach it upward from the slot of the joint **g'** of the lock arm rivet assembly.

(2) Detach the loading roller assembly from the slot of the joint **h'** of the lock arm rivet assembly.

The roller guide comes off the gear section of the loading roller assembly.

Remove the roller guide and the HL washer from the shaft of the loading roller assembly.

(3) Remove the screw **J** attaching the lock arm rivet assembly.

(4) Push the shaft at the joint **i'** of the lock arm rivet assembly inward to release the lock arm rivet assembly from the slot of the L side plate.

(5) Extend the lock arm rivet assembly outward and release the joint **j'** from the boss of the chassis rivet assembly. The roller guide springs on both sides come off at the same time.

CAUTION:

When reassembling, reattach the left and right roller guide springs to the lock arm rivet assembly before reattaching the lock arm rivet assembly to the chassis rivet assembly. Make sure to fit the part k' of the roller guide spring inside of the roller guide. (Refer to Fig.34.)

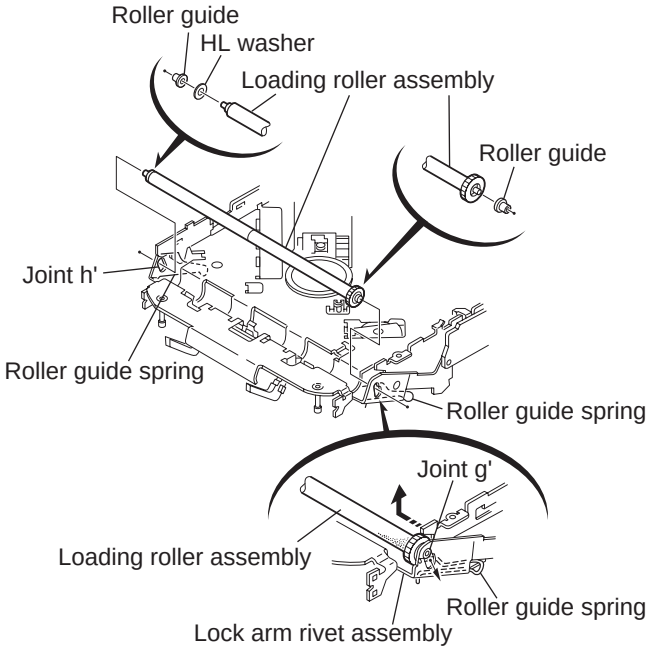


Fig.31

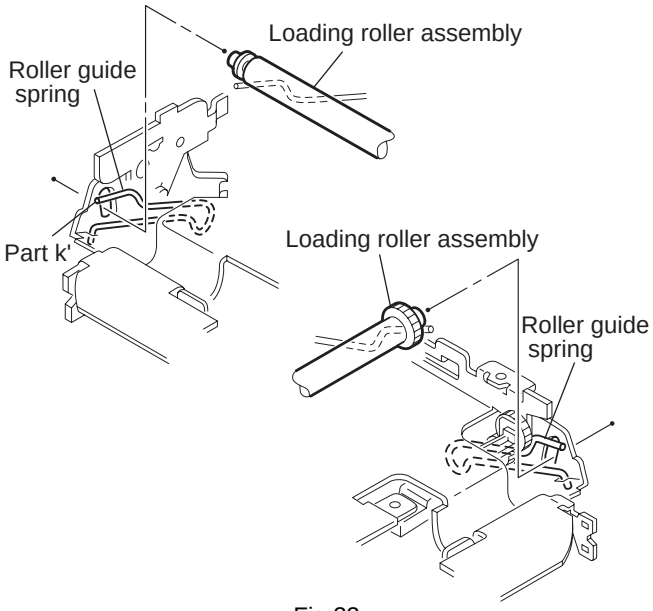


Fig.32

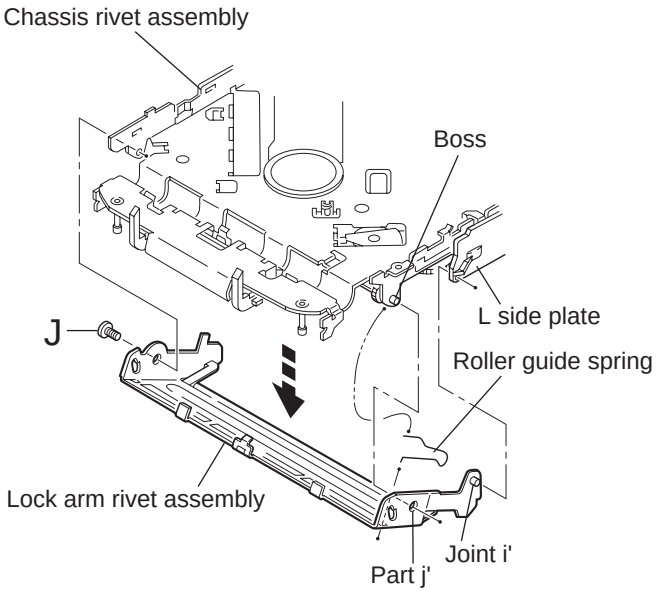


Fig.33

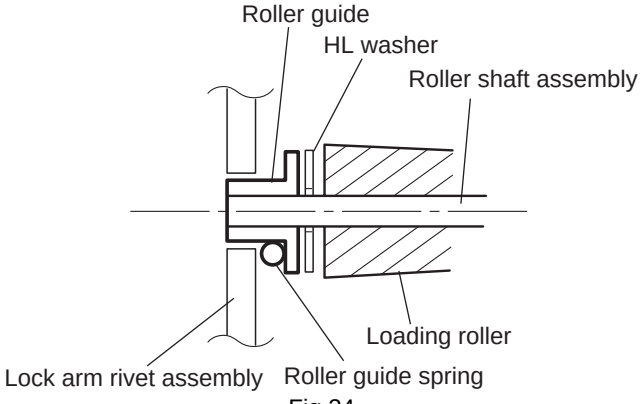


Fig.34

3.2.16 Removing the loading gear 5, 6 and 7 (See Figs.35 and 36)

- Prior to performing the following procedure, remove the top cover, chassis unit, pickup unit and top plate assembly.
  (1) Remove the screw **K** attaching the loading gear bracket. The loading gear 6 and 7 come off the loading gear bracket.
  (2) Pull out the loading gear 5.

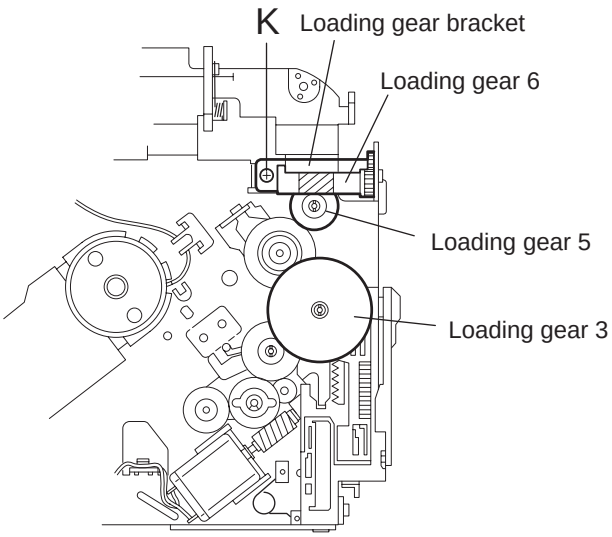


Fig.35

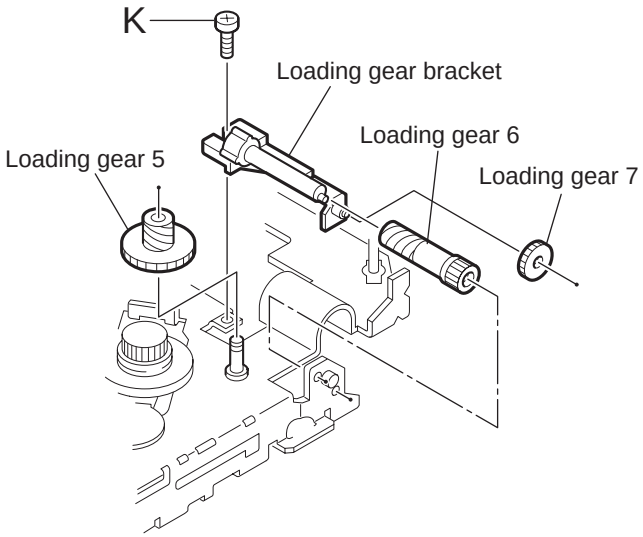


Fig.36

3.2.17 Removing the gears
(See Figs.37 to 40)

- Prior to performing the following procedure, remove the top cover, chassis unit, top plate assembly and pickup unit.
- Pull out the loading gear 3. (See Fig.35.)

(1) Pull out the feed gear.
(2) Move the loading plate assembly in the direction of the arrow to release the L side plate from the two slots m' of the chassis rivet assembly. (See Fig.37.)
(3) Detach the loading plate assembly upward from the chassis rivet assembly while releasing the joint **n'**. Remove the slide hook and loading plate spring from the loading plate assembly.
(4) Pull out the loading gear 2 and remove the change lock lever.
(5) Remove the E ring and washer attaching the changer gear 2.
(6) The changer gear 2, change gear spring and adjusting washer come off.
(7) Remove the loading gear 1.
(8) Move the change plate rivet assembly in the direction of the arrow to release from the three shafts of the chassis rivet assembly upward. (See Fig.38.)
(9) Detach the loading gear plate rivet assembly from the shaft of the chassis rivet assembly upward while releasing the joint p'. (See Figs.38 and 40.)
(10) Pull out the loading gear 4.

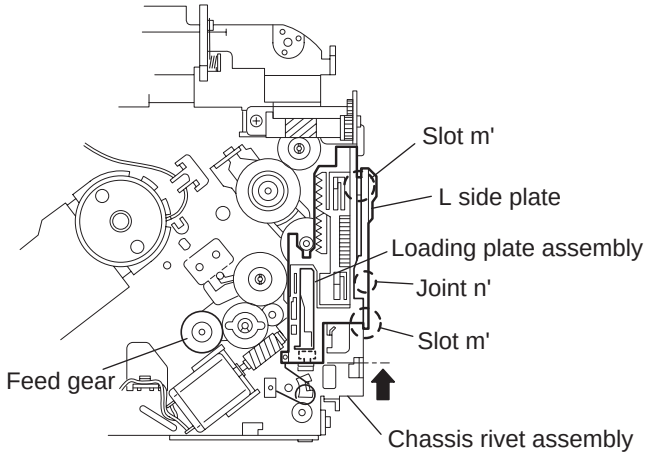


Fig.37

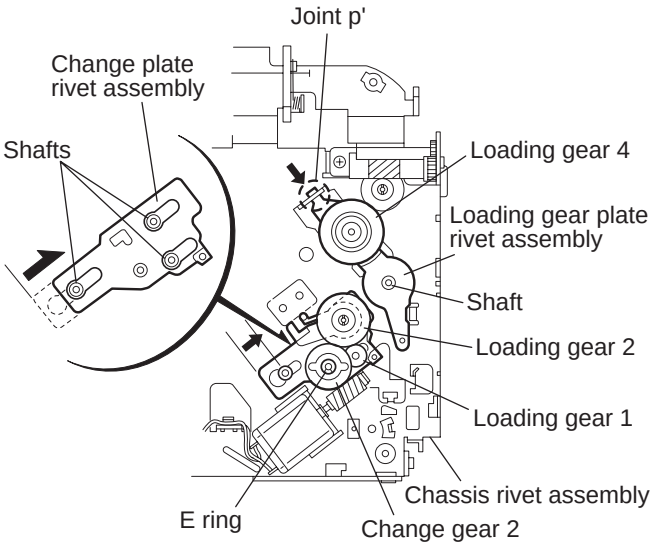


Fig.38

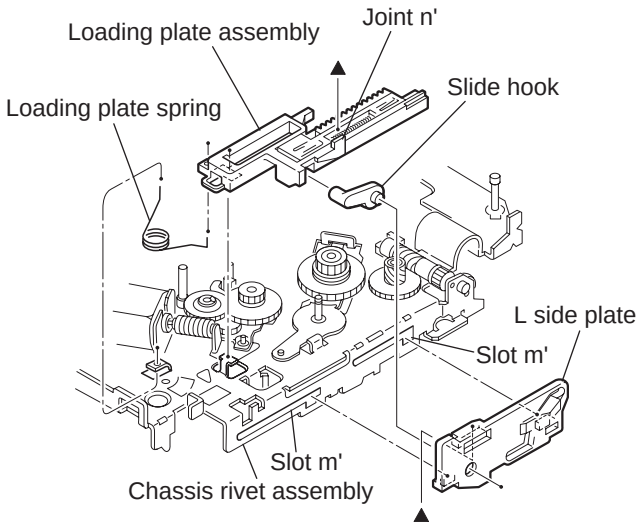


Fig.39

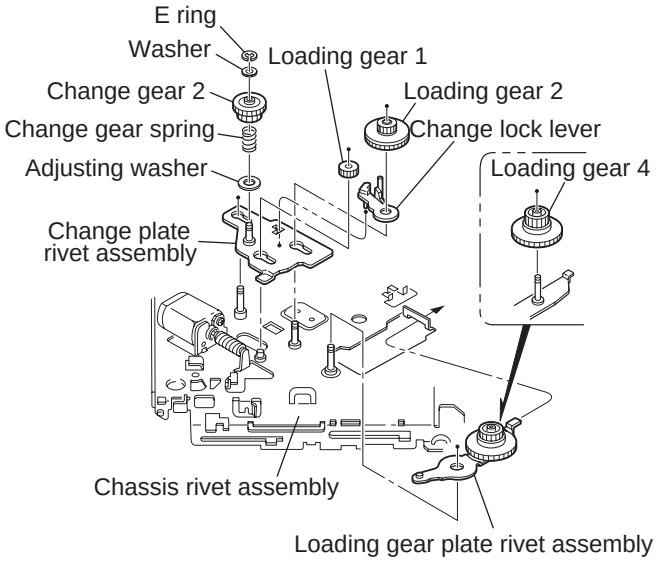


Fig.40

3.2.18 Removing the turn table / spindle motor (See Figs.41 and 42)

- Prior to performing the following procedure, remove the top cover, connector board, chassis unit and clamper assembly.
  (1) Remove the two screws **L** attaching the spindle motor assembly through the slot of the turn table on top of the body.
  (2) Unsolder the wire on the connector board if necessary.

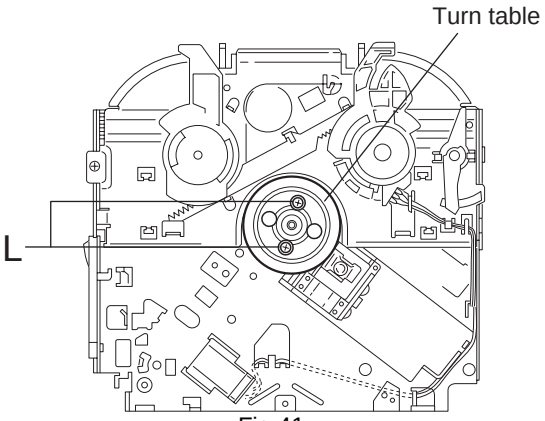


Fig.41

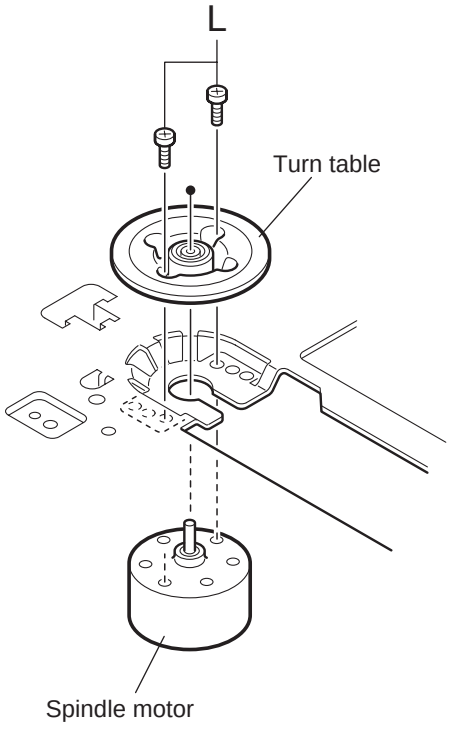


Fig.42

SECTION 4
ADJUSTMENT

4.1 Adjustment method

■ **Test instruments required for adjustment**

(1) Digital oscilloscope (100MHz)
(2) AM Standard signal generator
(3) FM Standard signal generator
(4) Stereo modulator
(5) Electric voltmeter
(6) Digital tester
(7) Tracking offset meter
(8) Test Disc JVC :CTS-1000
(9) Extension cable for check
EXTSH002-22P × 1

■ **Standard volume position**

Balance and Bass &Treble volume : Indication"0"
Loudness : OFF

■ **How to connect the extension cable for adjusting**

Caution:

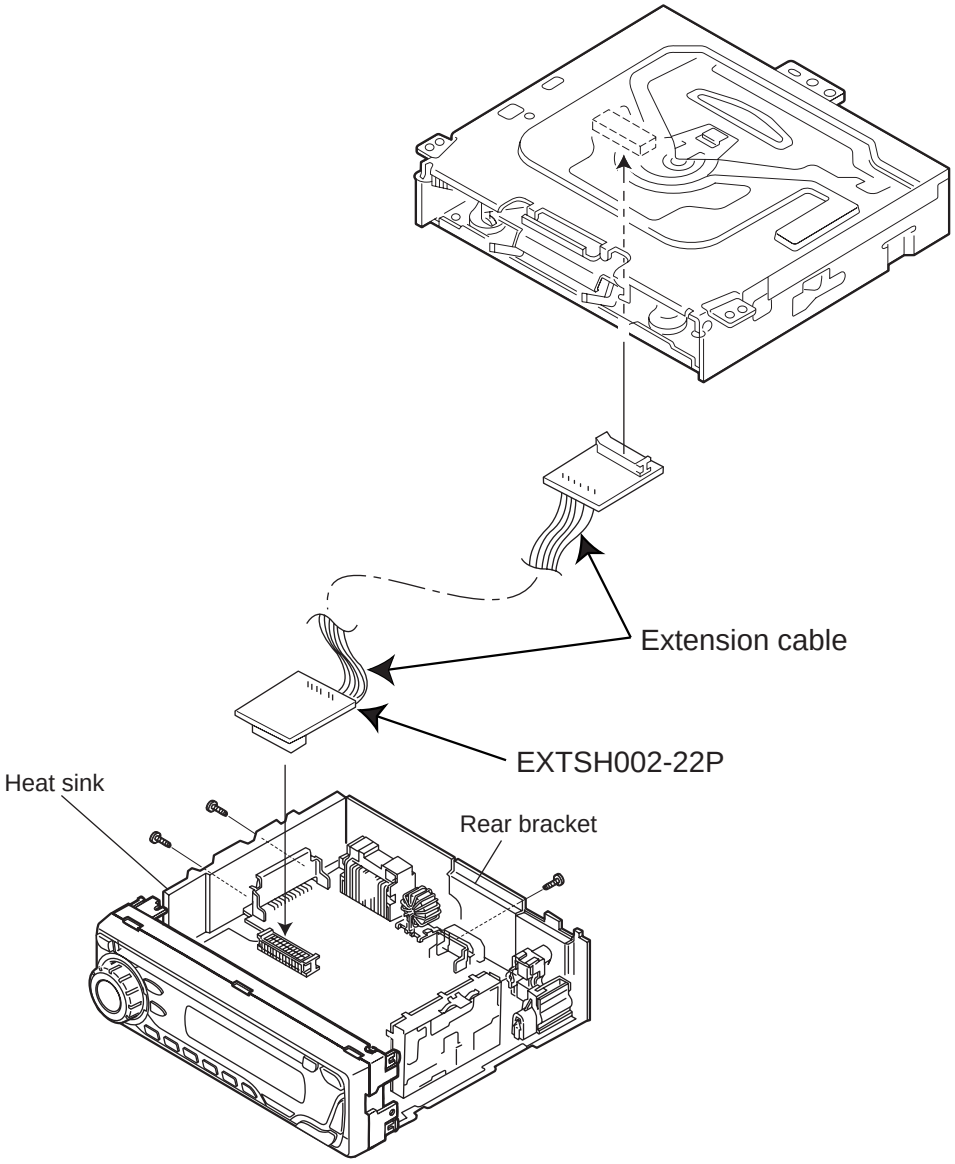
Be sure to attach the heat sink and rear bracket onto the power amplifier IC and regulator IC respectively, before supply the power. If voltage is applied without attaching these parts, the power amplifier IC and regulator IC will be destroyed by heat.

■ **Standard measuring conditions**

Power supply voltage	DC14.4V(10.5 to 16V)
Load impedance	20KΩ(2 Speakers connection)
Output Level	Line out 2.0V (Vol. MAX)

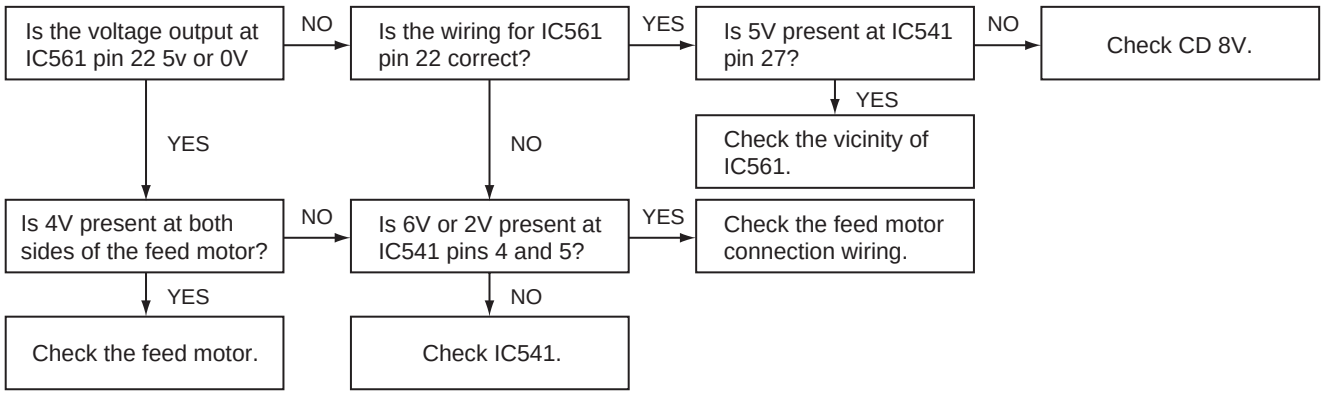
■ **Dummy load**

Exclusive dummy load should be used for AM,and FM. For FM dummy load,there is a loss of 6dB between SSG output and antenna input.The loss of 6dB need not be considered since direct reading of figures are applied in this working standard.

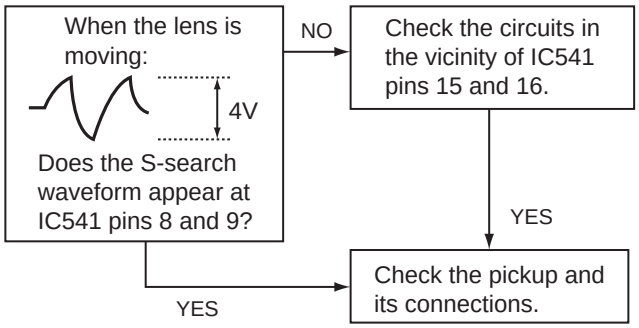


SECTION 5
TROUBLE SHOOTING

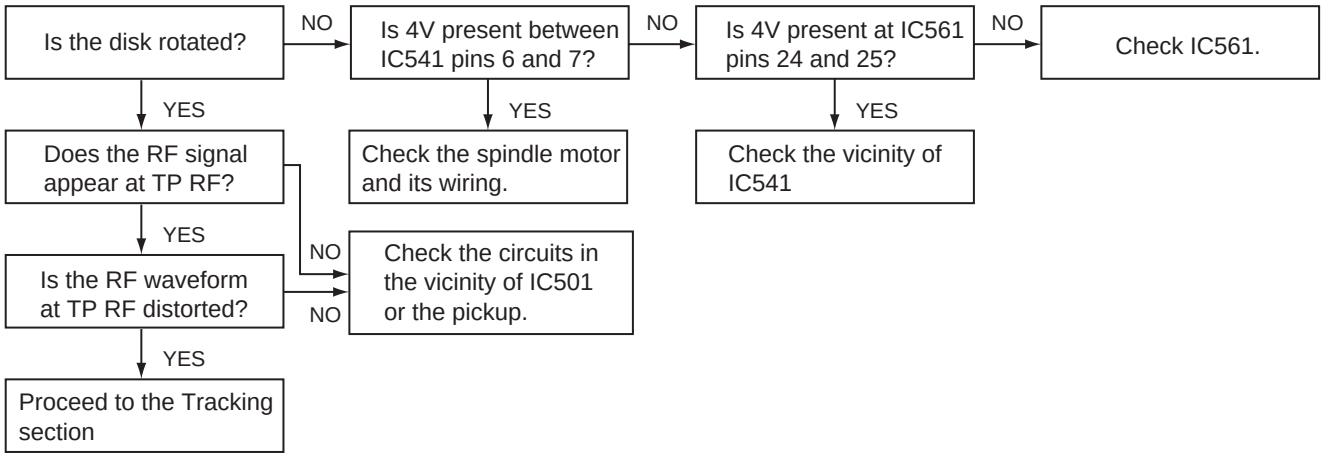
5.1 Feed section



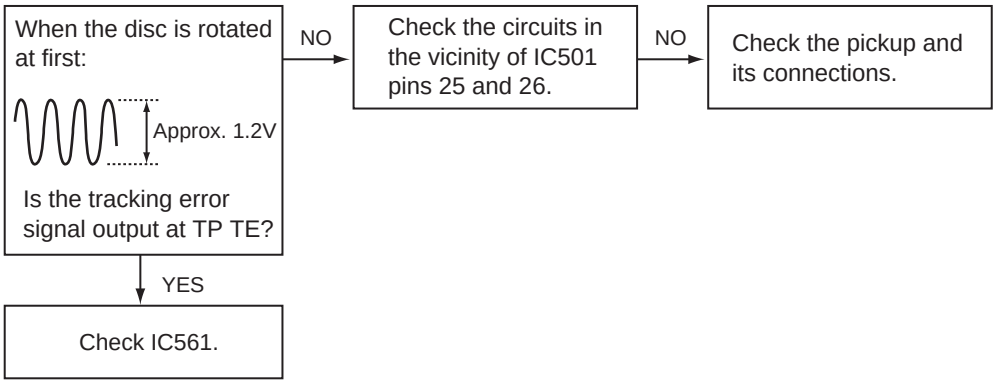
5.2 Focus section


When the lens is moving:
4V
Does the S-search waveform appear at IC541 pins 8 and 9?
NO
Check the circuits in the vicinity of IC541 pins 15 and 16.
YES
Check the pickup and its connections.
YES

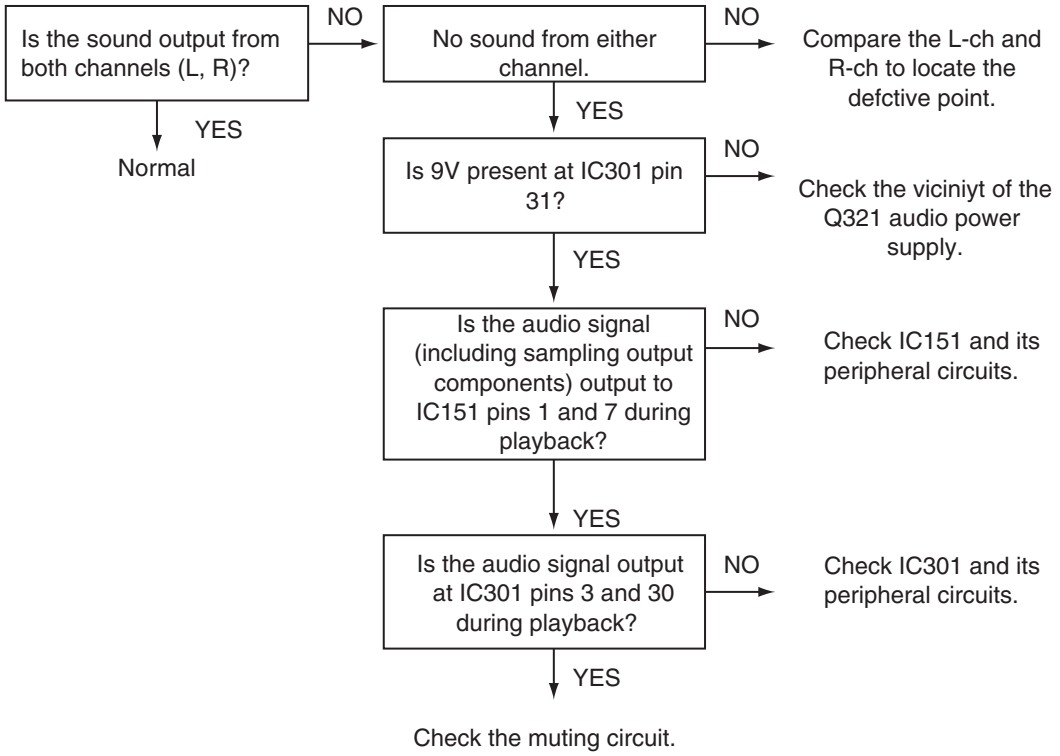
5.3 Spindle section



5.4 Tracking section


When the disc is rotated at first:
Approx. 1.2V
Is the tracking error signal output at TP TE?
NO
Check the circuits in the vicinity of IC501 pins 25 and 26.
NO
Check the pickup and its connections.
YES
Check IC561.

5.5 Signal processing section

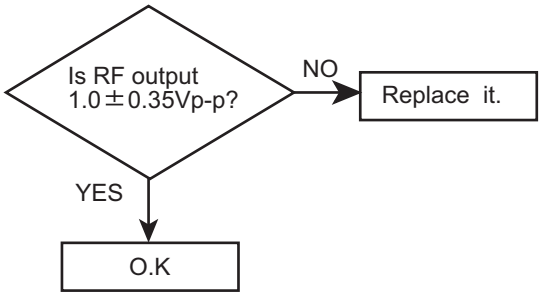

Is the sound output from both channels (L, R)?
NO
No sound from either channel.
NO
Compare the L-ch and R-ch to locate the defctive point.
YES
Normal
YES
Is 9V present at IC301 pin 31?
NO
Check the viciniyt of the Q321 audio power supply.
YES
Is the audio signal (including sampling output components) output to IC151 pins 1 and 7 during playback?
NO
Check IC151 and its peripheral circuits.
YES
Is the audio signal output at IC301 pins 3 and 30 during playback?
NO
Check IC301 and its peripheral circuits.
YES
Check the muting circuit.

5.6 Maintenance of laser pickup

(1) Cleaning the pick up lens
Before you replace the pick up, please try to clean the lens with a alcohol soaked cotton swab.

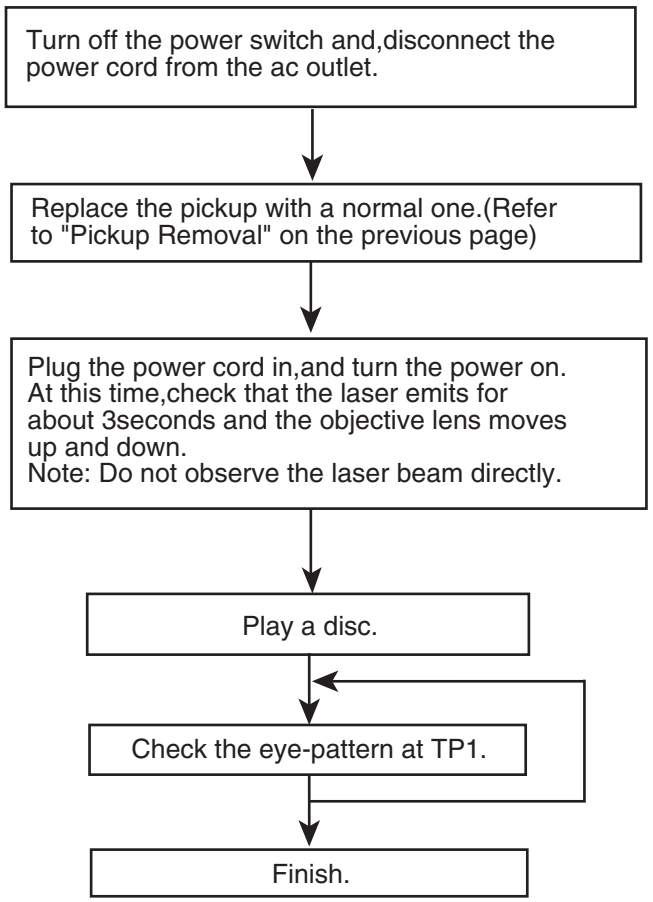
(2) Life of the laser diode
When the life of the laser diode has expired, the following symptoms will appear.

- The level of RF output (EFM output: amplitude of eye pattern) will be low.

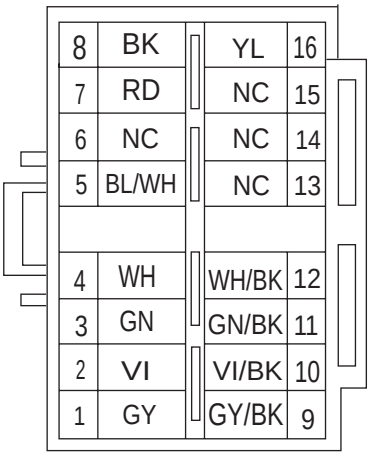


(3) Semi-fixed resistor on the APC PC board
The semi-fixed resistor on the APC printed circuit board which is attached to the pickup is used to adjust the laser power.Since this adjustment should be performed to match the characteristics of the whole optical block, do not touch the semi-fixed resistor.
If the laser power is lower than the specified value, the laser diode is almost worn out, and the laser pickup should be replaced. If the semi-fixed resistor is adjusted while the pickup is functioning normally, the laser pickup may be damaged due to excessive current.

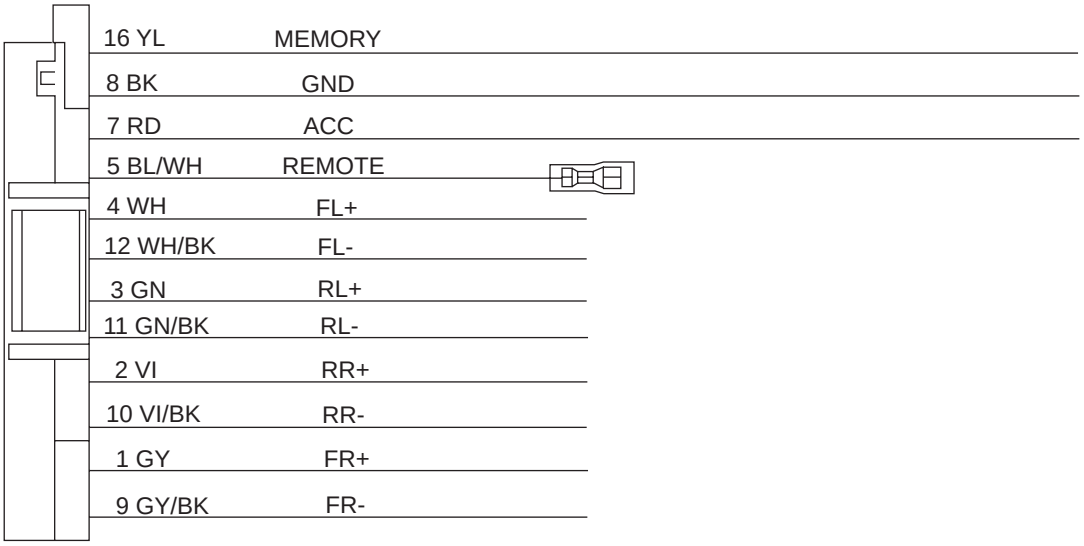
5.7 Replacement of laser pickup


Turn off the power switch and,disconnect the power cord from the ac outlet.
Replace the pickup with a normal one.(Refer to "Pickup Removal" on the previous page)
Plug the power cord in,and turn the power on. At this time,check that the laser emits for about 3seconds and the objective lens moves up and down.
Note: Do not observe the laser beam directly.
Play a disc.
Check the eye-pattern at TP1.
Finish.

5.8 16 pin cord diagram



BK	Black	GN	Green
RD	Red	VI	Violet
BL	Blue	GY	Gray
WH	White	YL	Yellow



RR	Rear Right	REMOTE	Remote
FR	Front Right	ACC	ACC Line
FL	Front Left	MEMORY	Memory Backup Battery
RL	Rear Left	GND	Ground

JVC
VICTOR COMPANY OF JAPAN, LIMITED
AV & MULTIMEDIA COMPANY MOBILE ENTERTAINMENT CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MA030)

Printed in Japan
WPC

JVC

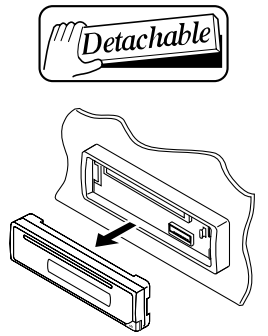
SCHEMATIC DIAGRAMS

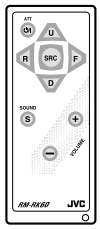
CD RECEIVER

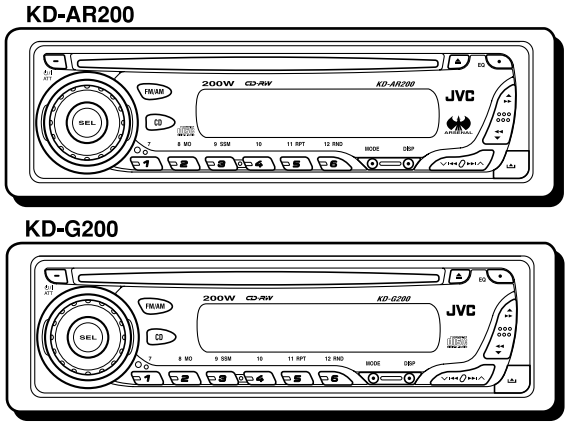
KD-AR200, KD-G200

CD-ROM No.SML200312

Area suffix
J ---------- Northern America







COMPACT disc DIGITAL AUDIO

CD-RW

Contents

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Printed circuit boards ---------- 2-5, 6

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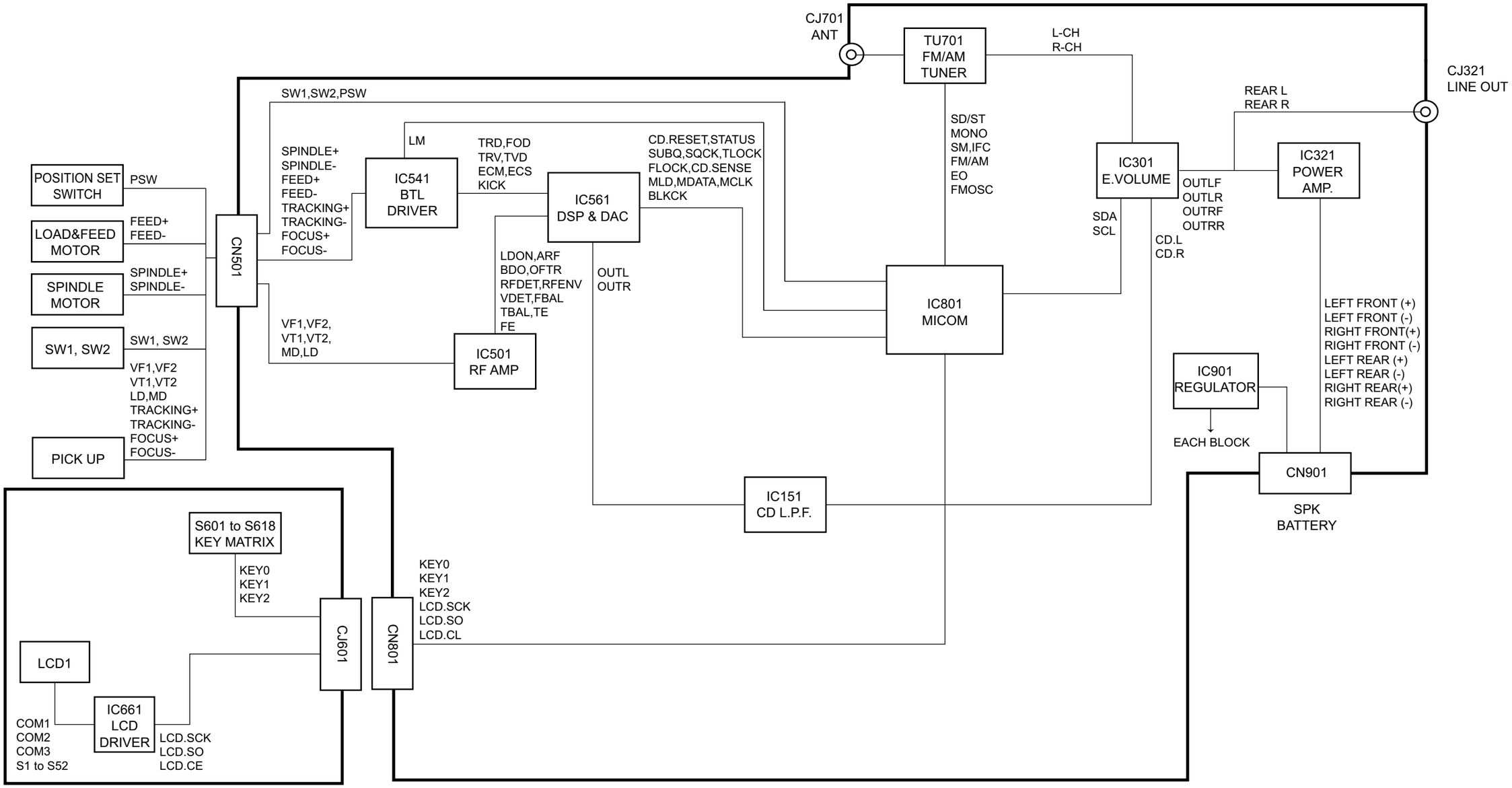
No.MA030SCH
2003/12

Safety precaution

⚠ ***CAUTION*** **Burrs formed during molding may be left over on some parts of the chassis. Therefore, pay attention to such burrs in the case of preforming repair of this system.**

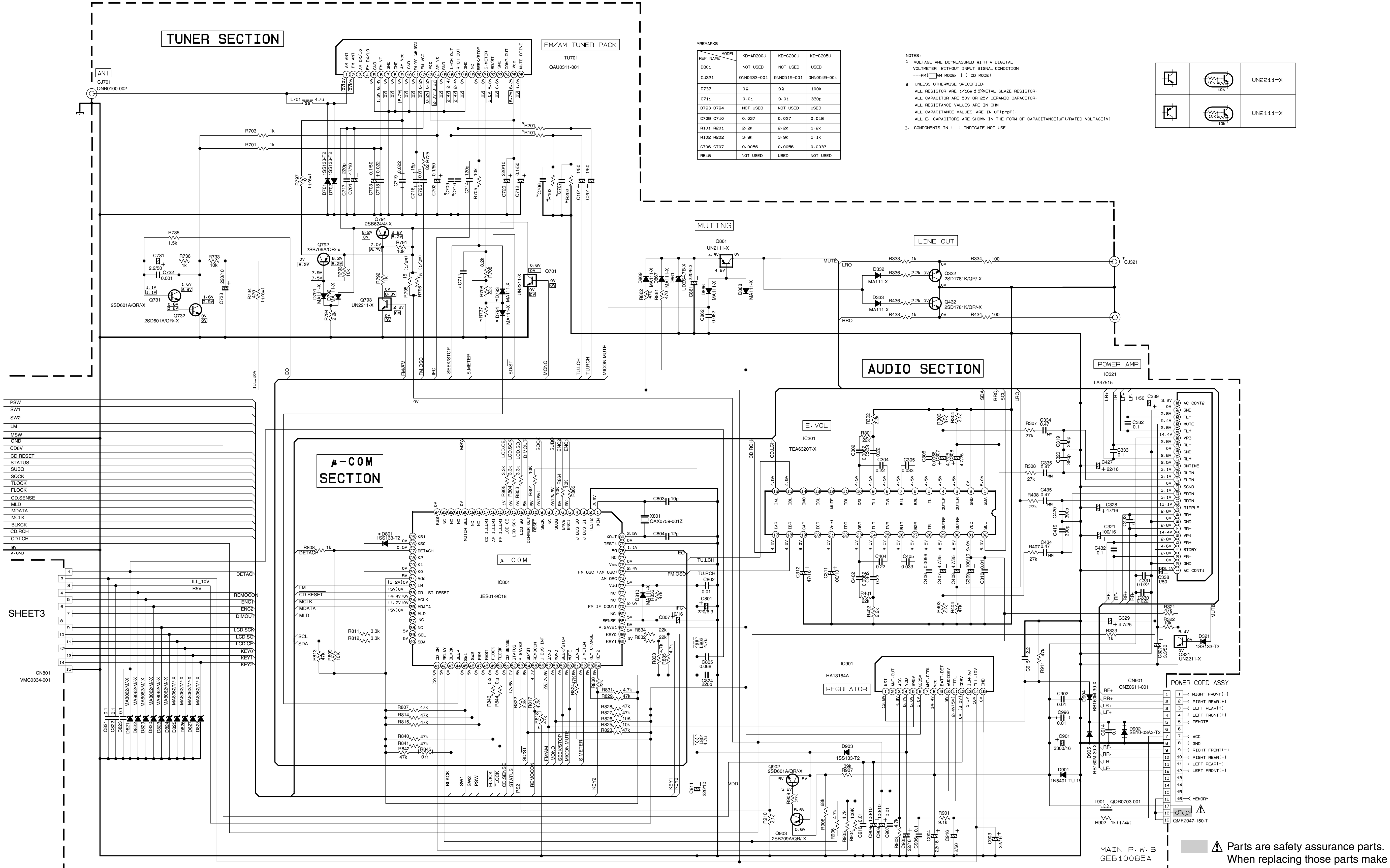
⚠ ***CAUTION*** **Please use enough caution not to see the beam directly or touch it in case of an adjustment or operation check.**

Block diagram



Standard schematic diagrams

■ Main amplifier section



*REMARKS

REF NAME \ MODEL	KD-AR200J	KD-G200J	KD-G205U
D801	NOT USED	NOT USED	USED
CJ321	QNN0533-001	QNN0519-001	QNN0519-001
R737	0Ω	0Ω	100k
C711	0.01	0.01	330p
D793 D794	NOT USED	NOT USED	USED
C709 C710	0.027	0.027	0.018
R101 R201	2.2k	2.2k	1.2k
R102 R202	3.9k	3.9k	5.1k
C706 C707	0.0056	0.0056	0.0033
R818	NOT USED	USED	NOT USED

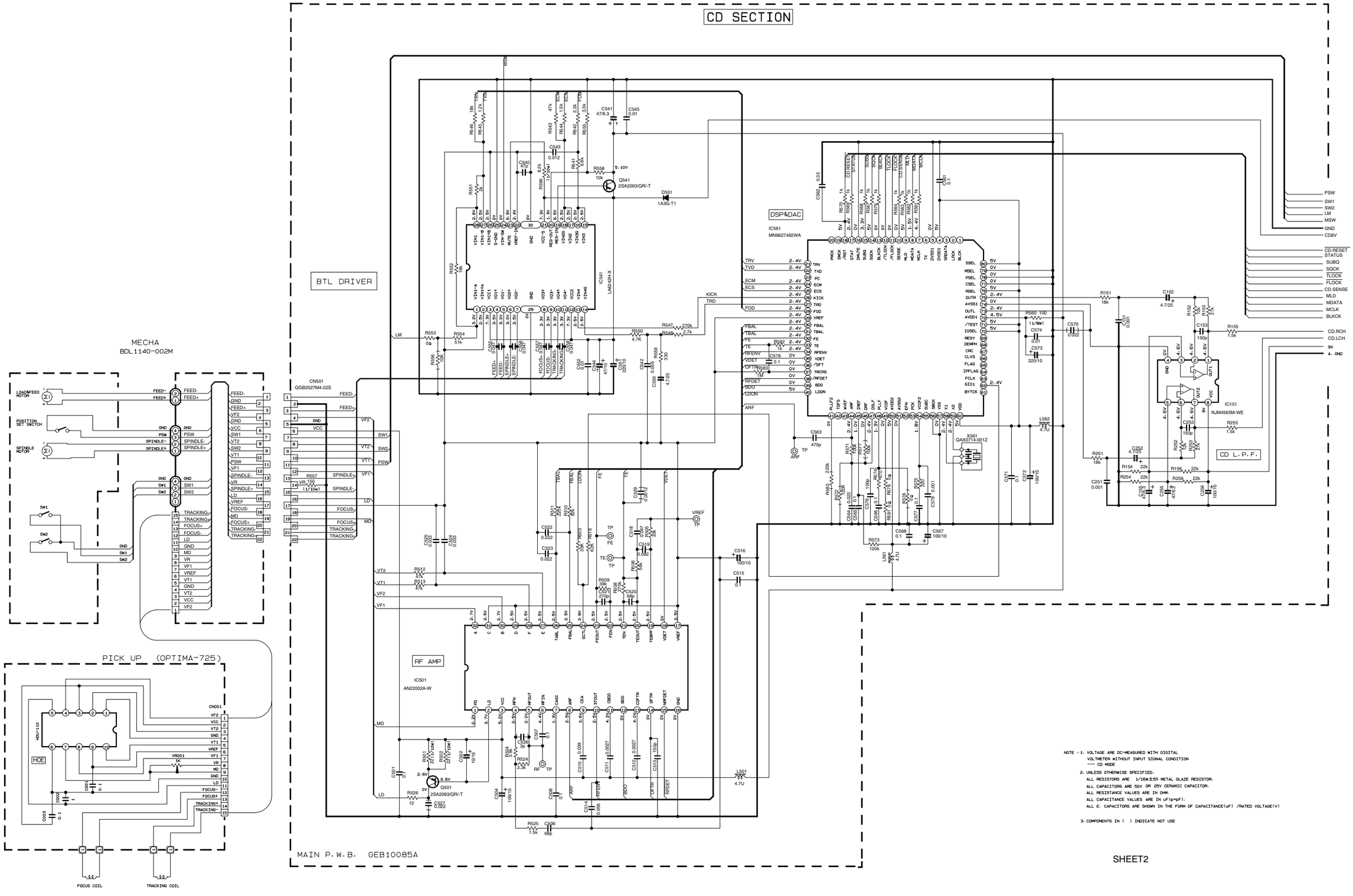
NOTES:

1. VOLTAGE ARE DC-MEASURED WITH A DIGITAL VOLTMETER WITHOUT INPUT SIGNAL CONDITION
   ---FM(☐ AM MODE, ( ) CD MODE)
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTOR ARE 1/16W ±5%METAL GLAZE RESISTOR.
   ALL CAPACITOR ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM
   ALL CAPACITANCE VALUES ARE IN uF(p=pF).
   ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
3. COMPONENTS IN ( ) INDICATE NOT USE

(symbol)	10k / 10k	UN2211-X
(symbol)	10k / 10k	UN2111-X

⚠ Parts are safety assurance parts. When replacing those parts make sure to use the specified one.

■ CD servo section

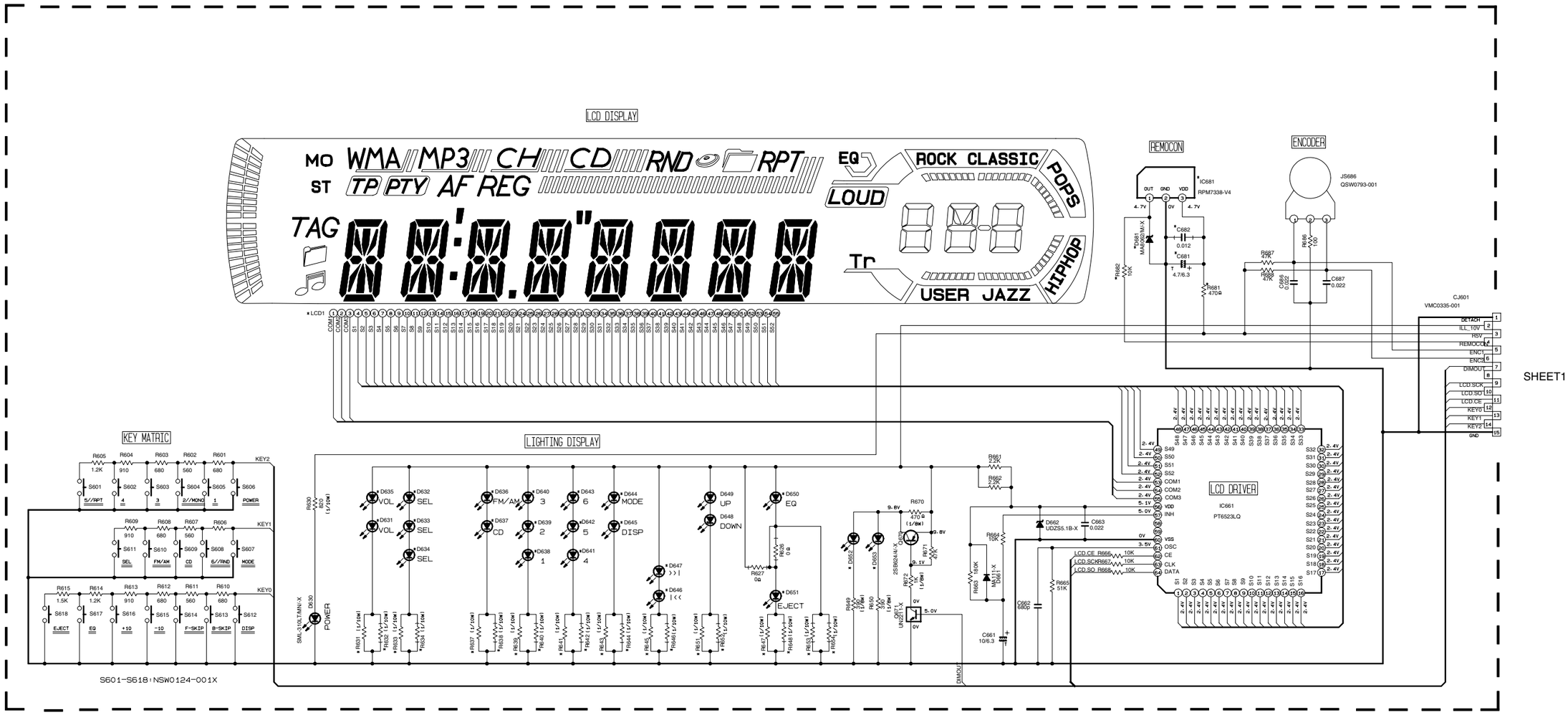


NOTE : 1. VOLTAGE ARE DC-MEASURED WITH DIGITAL
VOLTMETER WITHOUT INPUT SIGNAL CONDITION
--- CD MODE

2. UNLESS OTHERWISE SPECIFIED.
ALL RESISTORS ARE 1/16W±5% METAL GLAZE RESISTOR.
ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
ALL RESISTANCE VALUES ARE IN OHM.
ALL CAPACITANCE VALUES ARE IN uF(p=pF).
ALL E. CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF) /RATED VOLTAGE(V)

3. COMPONENTS IN ( ) INDICATE NOT USE

■ LCD & Key control section



SHEET1

SW PWB: GEB10100A

*REMARKS

	MODEL	KD-G200J	KD-AR200J	KD-G205U
	LCD1	QLD0289-001	QLD0289-001	QLD0307-001
	D631-D635, D638-D643, D646-D651	SML-310VT/JK/-X	SML-310VT/JK/-X	LNJ308G81/1-3/X
FM/AM & CD	D636, D637	SML-310VT/JK/-X	LNJ308G81/1-3/X	LNJ308G81/1-3/X
MODE & DISP	D644, D645	SML-310VT/JK/-X	SML-310VT/JK/-X	SML-310VT/JK/-X
	D652-D653	NSPW310BS/B2RS	NSPW310BS/B2RS	NSPW310BS/BRS
POWER	R630	820	820	820
VOL	R631	470	470	470
SEL	R633	680	680	330
UP, DOWN	R651	470	470	390
FM/AM & CD	R637	820	470	820
1, 2, 3	R639	330	330	330
4, 5, 6	R641	330	330	330
MODE & DISP	R643	470	470	390
>>|, |<<	R645	470	470	390
EQ, EJECT	R647	470	470	390
	IC681, D681, C681, R681, R682	NOT USED	USED	USED

	10K / 10K	UN2211-X

NOTES

1. VOLTAGES ARE DC-MEASURED WITH A DIGITAL VOLT METER WITHOUT INPUT SIGNAL.

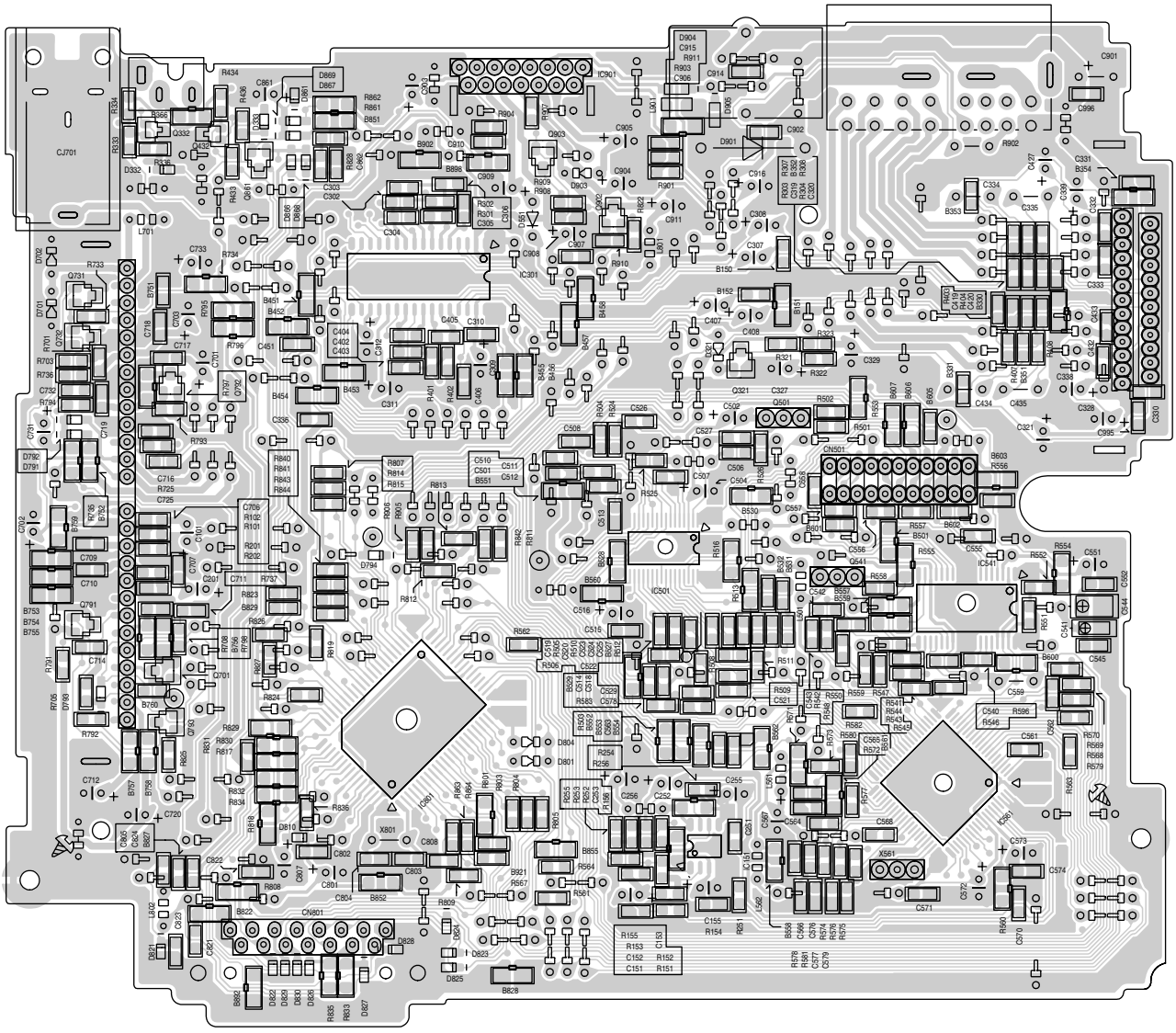
2. UNLESS OTHERWISE SPECIFIED.
   ALL RESISTORS ARE 1/16W ±5% METAL GLAZE RESISTOR.
   ALL CAPACITORS ARE 50V OR 25V CERAMIC CAPACITOR.
   ALL RESISTANCE VALUES ARE IN OHM.
   ALL CAPACITANCE VALUES ARE IN uF(P=pF)
   ALL E.CAPACITORS ARE SHOWN IN THE FORM OF CAPACITANCE(uF)/RATED VOLTAGE(V)
   T ---- TANTAL CAPACITOR.

3. COMPONENTS IN ( ) INDICATE NOT USE.

SHEET3

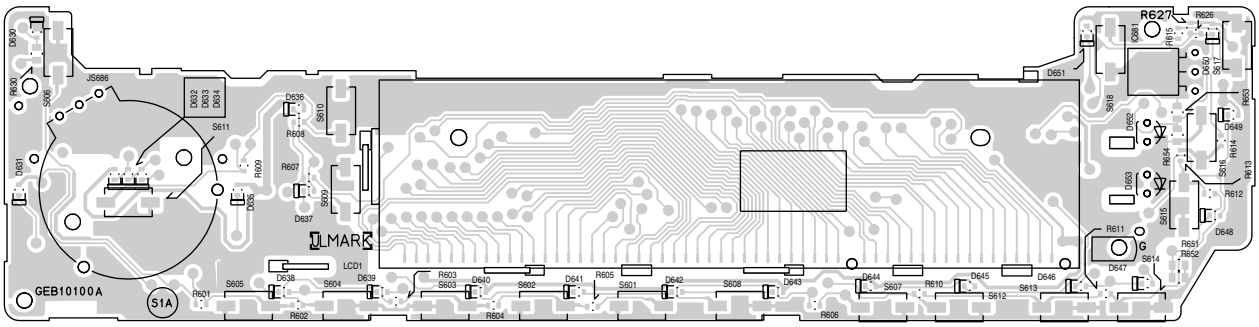
Printed circuit boards

■ Main board

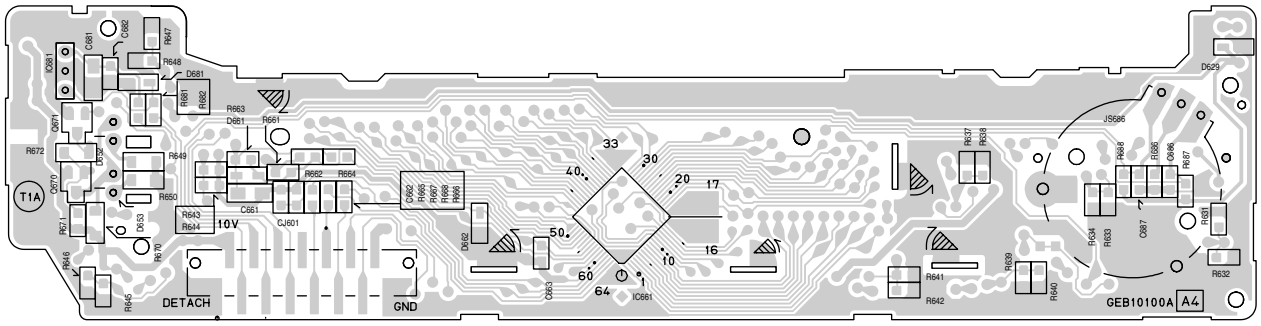


■ Front board

Forward side



Reverse side



< MEMO >

JVC

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AV & MULTIMEDIA COMPANY MOBILE ENTERTAINMENT CATEGORY 10-1,1chome,Ohwatari-machi,Maebashi-city,371-8543,Japan

(No.MA030SCH)

Printed in Japan
WPC

PARTS LIST

[KD-G200/ KD-AR200]

* All printed circuit boards and its assemblies are not available as service parts.

Area suffix

J ---------- Northern America

- Contents -

Exploded view of general assembly and parts list (Block No.M1) ---------- 3- 2
CD mechanism assembly and parts list (Block No.MB) ---------- 3- 4
Electrical parts list (Block No.01~02) ---------- 3- 6
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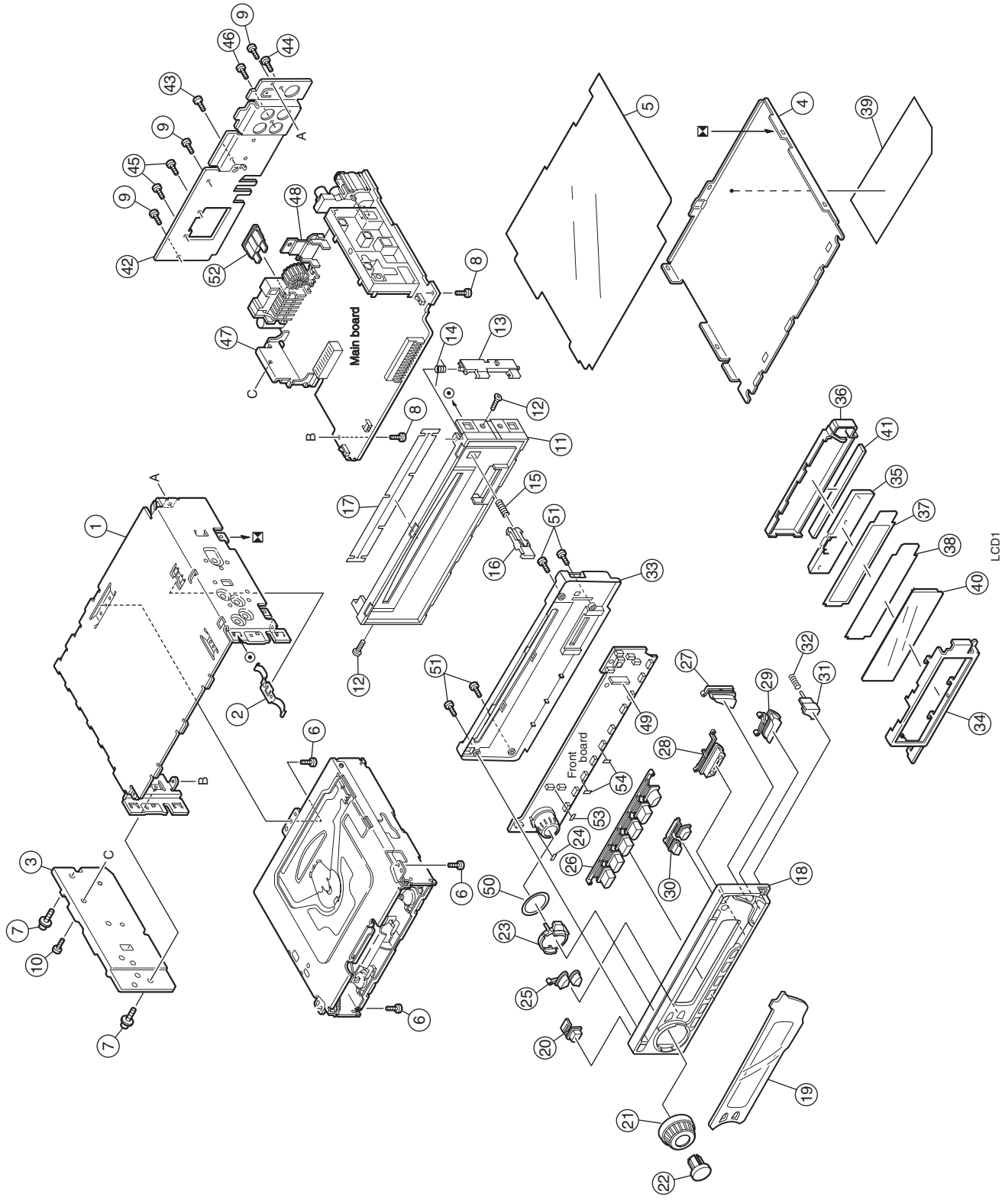
Exploded view of general assmbly and parts list

Block No. M 1 M M



General assembly

Block No. [M][1][M][M]

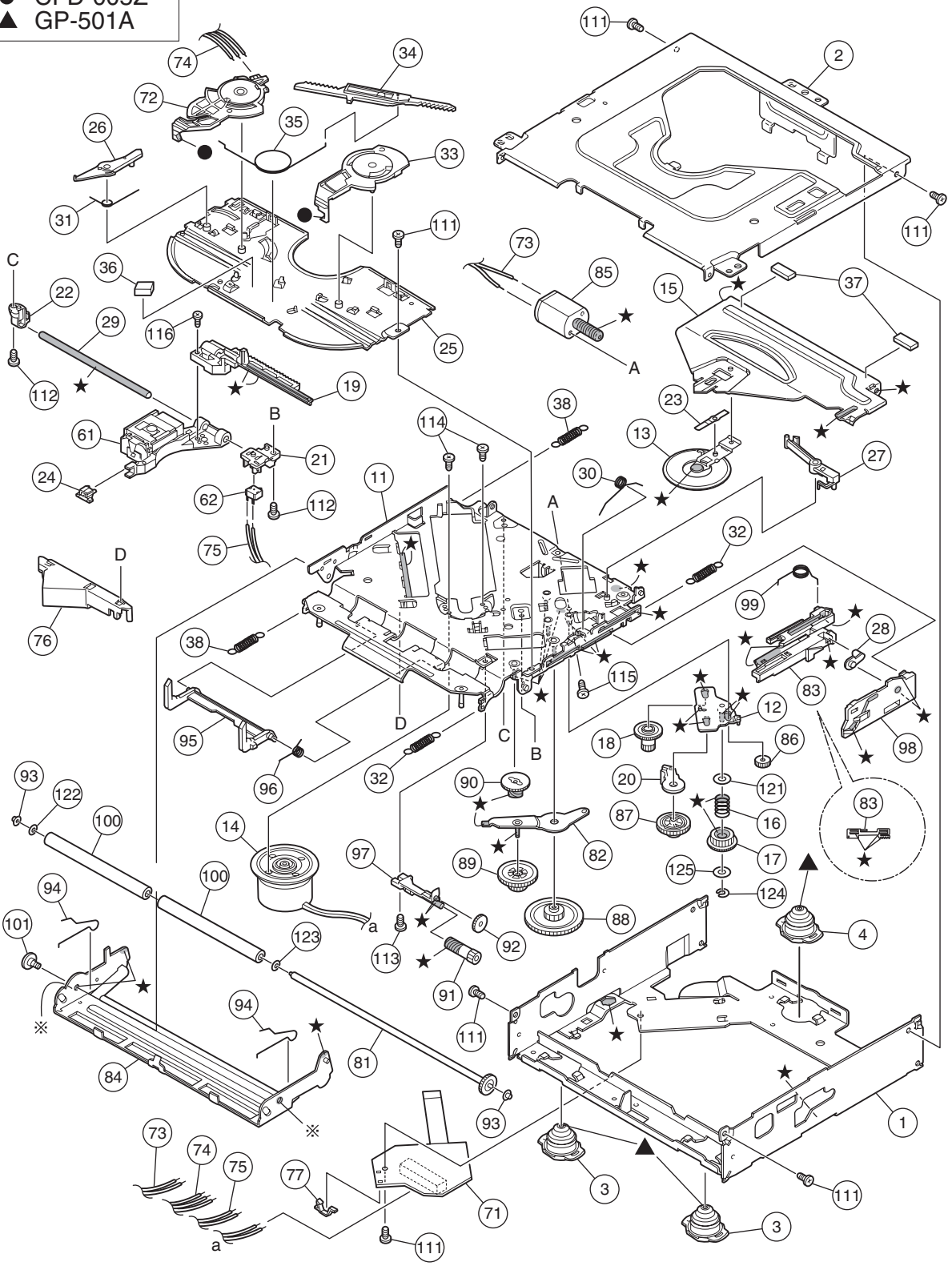
⚠ Symbol No.	Part No.	Part Name	Description	Local
1	GE10043-210A	TOP CHASSIS		
2	GE40135-001A	EARTH PLATE		
3	GE30938-003A	SIDE PANEL		
4	GE30393-002A	BOTTOM COVER		
5	FSMA3004-203	INSULATOR		
6	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)	
7	FSKZ4005-001	SCREW	(x2)	
8	QYSDST2606Z	SCREW	2.6mm x 6mm(x2)	
9	QYSDST2604Z	SCREW	2.6mm x 4mm(x3)	
10	QYSDST2610Z	SCREW	2.6mm x 10mm	
11	GE10079-001A	FRONT CHASSIS		
12	QYSDST2004M	MINI SCREW	2mm x 4mm(x2)	
13	GE31033-001A	LOCK LEVER		
14	FSKW4005-003	TORSION SPRING		
15	GE40202-001A	COMPRESSION SPRING		
16	GE31034-001A	RLS KNOB		
17	GE40156-001A	BLIND		
18	GE10077-003A	FRONT PANEL		AR200
18	GE10077-001A	FRONT PANEL		G200
19	GE31031-015A	FINDER ASSY		AR200
19	GE31031-014A	FINDER ASSY		G200
20	GE31027-001A	POWER BUTTON		
21	GE31038-001A	VOLUME KNOB		
22	GE31039-002A	SEL BUTTON		AR200
22	GE31039-001A	SEL BUTTON		G200
23	GE31040-001A	RIM LENS		
24	FSYH4036-069	SHEET		
25	GE31181-002A	D.FUNC BTN		AR200
25	GE31029-001A	D.FUNC BTN		G200
26	GE20161-002A	PRESET BUTTON		AR200
26	GE20161-001A	PRESET BUTTON		G200
27	GE31024-004A	UP/DOWN BTN		AR200
27	GE31024-002A	UP/DOWN BTN		G200
28	GE31028-001A	SSM BTN		
29	GE31025-002A	SEARCH BTN		AR200
29	GE31025-001A	SEARCH BTN		G200
30	GE31026-001A	EJECT BUTTON		
31	GE31032-003A	DETACH BTN		AR200
31	GE31032-002A	DETACH BTN		G200
32	GE40202-003A	COMPRESSION SPRING		
33	GE10078-001A	REAR COVER		
34	GE31021-001A	LCD CASE		
35	GE31022-002A	LCD LENS		
36	GE31023-001A	LENS CASE		
37	GE40199-001A	LIGHTING SHEET		
38	GE40199-002A	LIGHTING SHEET		
39	GE31053-001A	NAME PLATE		AR200
39	GE31050-001A	NAME PLATE		G200
40	QLD0289-001	LCD MODULE		
41	QNZ0443-001	LCD CONNECTOR		
42	GE30912-008A	REAR BRACKET		
43	QYSDST2606Z	SCREW	2.6mm x 6mm	
44	QYSDST2606Z	SCREW	2.6mm x 6mm	
45	QYSDSF2606Z	SCREW	2.6mm x 6mm(x2)	
46	QYSDSF2606Z	SCREW	2.6mm x 6mm	
47	GE40172-004A	IC BRACKET		
48	GE40124-002A	REG BRACKET		
49	GE30854-001A	LED HOLDER		
50	GE40218-002A	SHEET		
51	VKZ4777-001	MINI SCREW	(x4)	
⚠ 52	QMFZ047-150-T	FUSE	15A	

CD mechanism assembly and parts list

Block No. M B M M

TN-2001-1011

Grease
- ★ TNG-87
- ※ GP-501MK
- ● CFD-005Z
- ▲ GP-501A



CD mechanism

Block No. [M][B][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
1	30320101T	FRAME		
2	30320102T	TOP COVER		
3	30320115T	DANPER F		
4	30320116T	DANPER R		
11	303205505T	CHASSIS RIVET		
12	303205503T	CHANGE P. RVT A		
13	303205301T	CLAMPER ASS'Y		
14	303205302T	SPINDLE MOTOR A		
15	30320502T	CLAMPER ARM		
16	30320503T	CHANGE GEAR SPG		
17	30320505T	CHANGE GEAR 2		
18	30320506T	FEED GEAR		
19	30320507T	FEED RACK		
20	30320509T	CHANGE LOCK RAR		
21	30320510T	FEED SW HOLDER		
22	30320511T	PU SHAFT HOLDER		
23	30320513T	CLAMPER SUB SPG		
24	30320514T	FD SUB HOLDER		
25	30320518T	TOP PLATE		
26	30320519T	SELECT LOCK ARM		
27	30320520T	TRIGGER ARM		
28	30320521T	SLIDE HOOK		
29	30320522T	PU SHAFT		
30	30320525T	CLAMPER ARM SPG		
31	30320526T	SELECT L ARM SP		
32	30320538T	SUSPENSION SP R		
33	30320529T	SELECT ARM R		
34	30320530T	LINK PLATE		
35	30320531T	LINK PLATE SPG		
36	30320523T	CUSHION F		
37	30320524T	CUSHION R		
38	30320539T	SUSPENSION SP L		
61	69011614T	PICKUP OPT-725		
62	64180406T	DET SW ESE22		
71	303210301T	CONN PWB ASS'Y		
72	30321002T	MODE SW		
73	30321003T	LOAD MOTOR WIRE		
74	30321005T	MODE SW WIRE		
75	30321009T	SL WIRE		
76	30321011T	WIRE HOLDER		
77	19501403T	WIRE CLUMPER		
81	303211301T	ROLLER SHAFT AS		
82	303211501T	L GEAR PLATE RV		
83	303211302T	LOADING PLATE A		
84	303211502T	LOCK ARM RV ASS		
85	303211303T	L/F MOTOR ASS'Y		
86	30321101T	LOADING GEAR 1		
87	30321102T	LOADING GEAR 2		
88	30321103T	LOADING GEAR 3		
89	30321104T	LOADING GEAR 4		
90	30321105T	LOADING GEAR 5		
91	30321106T	LOADING GEAR 6		
92	30321107T	LOADING GEAR 7		
93	30321111T	ROLLER GUIDE		
94	30321114T	ROLLER GUIDE SP		
95	30321116T	DISC STOPPER AR		
96	30321117T	DISC ST ARM SPG		
97	30321118T	LD GEAR BRACKET		
98	30321125T	L SIDE PLATE		
99	30321131T	LOAD PLATE SPG		
100	30321133T	LDG ROLLER		
101	18211223T	COLLAR SCREW		
111	9P0420031T	SCREW		
112	9P0420041T	TAP.SCREW		
113	9B0320041T	SCREW		
114	9C0117183T	SCREW		
115	9C0120203T	SCREW		
116	9C0317503T	SCREW		
121	9W0130170T	PW 3.5X8X0.3		
122	9W0513060T	HL WASHER		
123	9W0710070T	L WASHER		
124	9E0100152T	E RING		
125	9W0113020T	PW 2.1X4X0.13		

Electrical parts list

Main board

Block No. [0][1][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC151	NJM4565M-WE	IC		
IC301	TEA6320T-X	IC		
IC321	LA47515	IC		
IC501	AN22002A-W	IC		
IC541	LA6242H-X	BTL DRIVER IC		
IC561	MN6627482WA	IC		
IC801	JES01-9C18	IC		
IC901	HA13164A	IC		
Q321	UN2211-X	TRANSISTOR		
Q332	2SD1781K/QR/-X	TRANSISTOR		
Q432	2SD1781K/QR/-X	TRANSISTOR		
Q501	2SA2093/QR/-T	TRANSISTOR		
Q541	2SA2093/QR/-T	TRANSISTOR		
Q701	UN2211-X	TRANSISTOR		
Q731	2SD601A/QR/-X	TRANSISTOR		
Q732	2SD601A/QR/-X	TRANSISTOR		
Q791	2SB624/4/-X	TRANSISTOR		
Q792	2SB709A/QR/-X	TRANSISTOR		
Q793	UN2211-X	TRANSISTOR		
Q861	UN2111-X	TRANSISTOR		
Q902	2SD601A/QR/-X	TRANSISTOR		
Q903	2SB709A/QR/-X	TRANSISTOR		
D321	1SS133-T2	DIODE		
D332	MA111-X	SI DIODE		
D333	MA111-X	SI DIODE		
D551	1A3G-T1	SI DIODE		
D701	1SS133-T2	DIODE		
D702	1SS133-T2	DIODE		
D791	MA111-X	SI DIODE		
D792	MA111-X	SI DIODE		
D810	MA111-X	SI DIODE		
D821	MA8062/M/-X	Z DIODE		
D822	MA8062/M/-X	Z DIODE		
D823	MA8062/M/-X	Z DIODE		
D824	MA8062/M/-X	Z DIODE		
D825	MA8062/M/-X	Z DIODE		
D826	MA8062/M/-X	Z DIODE		
D827	MA8062/M/-X	Z DIODE		
D828	MA8062/M/-X	Z DIODE		
D829	MA8062/M/-X	Z DIODE		
D830	MA8062/M/-X	Z DIODE		
D861	UDZS4.7B-X	Z DIODE		
D866	MA111-X	SI DIODE		
D867	MA111-X	SI DIODE		
D868	MA111-X	SI DIODE		
D869	MA111-X	SI DIODE		
D901	1N5401-TU-15	DIODE		
D903	1SS133-T2	DIODE		
D904	RB160M-30-X	SB DIODE		
D905	RB160M-30-X	SB DIODE		
C101	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C151	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C152	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C153	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C155	QEKJ0JM-476Z	E CAPACITOR	47uF 6.3V M	
C201	QERF1HM-105Z	E CAPACITOR	1uF 50V M	
C251	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C252	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C253	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C255	QERF0JM-476Z	E CAPACITOR	47uF 6.3V M	
C256	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C302	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C303	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C304	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C305	NCB21HK-333X	C CAPACITOR	0.033uF 50V K	
C306	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C307	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C308	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C309	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C310	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C311	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C312	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C313	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C319	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
C320	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
C321	QERF1CM-107Z	E CAPACITOR	100uF 16V M	
C327	QERF1HM-335Z	E CAPACITOR	3.3uF 50V M	
C328	QEKJ1CM-476Z	E CAPACITOR	47uF 16V M	
C329	QEKJ1EM-475Z	E CAPACITOR	4.7uF 25V M	
C330	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C331	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C332	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C333	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C334	QFVD1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C335	QFVD1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C338	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C339	QEKJ1HM-105Z	E CAPACITOR	1uF 50V M	
C402	NCB31HK-822X	C CAPACITOR	8200pF 50V K	
C403	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C404	NCB31CK-224X	C CAPACITOR	0.22uF 16V K	
C405	NCB21HK-333X	C CAPACITOR	0.033uF 50V K	
C406	NCB31HK-562X	C CAPACITOR	5600pF 50V K	
C407	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C408	QERF1EM-475Z	E CAPACITOR	4.7uF 25V M	
C419	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
C420	NDC31HJ-391X	C CAPACITOR	390pF 50V J	
C427	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C432	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C433	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C434	QFVD1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C435	QFVD1HJ-474Z	MF CAPACITOR	0.47uF 50V J	
C501	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C502	QEKJ1CM-106Z	E CAPACITOR	10uF 16V M	
C504	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C506	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C507	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C508	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C510	NCB31EK-393X	C CAPACITOR	0.039uF 25V K	
C511	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C512	NCB31HK-272X	C CAPACITOR	2700pF 50V K	
C513	NDC31HJ-151X	C CAPACITOR	150pF 50V J	
C514	NCB31EK-563X	C CAPACITOR	0.056uF 25V K	
C515	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C516	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C518	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C519	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C520	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C521	NCB31HK-271X	C CAPACITOR	270pF 50V K	
C522	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C523	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C524	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C525	NCB31EK-333X	C CAPACITOR	0.033uF 25V K	
C540	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C541	NBE20JM-476X	TA E CAPACITOR	47uF 6.3V M	
C542	NCB31EK-563X	C CAPACITOR	0.056uF 25V K	
C543	NCB31EK-123X	C CAPACITOR	0.012uF 25V K	
C544	NBE41AM-476X	TA E CAPACITOR	47uF 10V M	
C545	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C546	NDC31HJ-680X	C CAPACITOR	68pF 50V J	
C551	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C552	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C555	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C556	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C557	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C558	NCB31EK-473X	C CAPACITOR	0.047uF 25V K	
C559	QEQ61EM-475Z	E CAPACITOR	4.7uF 25V M	
C561	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C562	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	
C563	NCB31HK-471X	C CAPACITOR	470pF 50V K	
C564	NCB21EK-223X	C CAPACITOR	0.022uF 25V K	
C565	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C566	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C567	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C568	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C571	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	

⚠ Symbol No.	Part No.	Part Name	Description	Local
C572	QEKJ1AM-107Z	E CAPACITOR	100uF 10V M	
C573	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C574	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C576	NDC31HJ-101X	C CAPACITOR	100pF 50V J	
C577	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C578	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C579	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C701	QERF1AM-476Z	E CAPACITOR	47uF 10V M	
C702	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C703	QERF1HM-104Z	E CAPACITOR	0.1uF 50V M	
C706	NCB31EK-562X	C CAPACITOR	5600pF 25V K	
C707	NCB31EK-562X	C CAPACITOR	5600pF 25V K	
C709	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C710	NCB31EK-273X	C CAPACITOR	0.027uF 25V K	
C711	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C712	QEKJ1HM-104Z	E CAPACITOR	0.1uF 50V M	
C714	NDC31HJ-121X	C CAPACITOR	120pF 50V J	
C717	NDC31HJ-221X	C CAPACITOR	220pF 50V J	
C718	NCB31EK-223X	C CAPACITOR	0.022uF 25V K	
C720	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C725	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C731	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
C732	NCB31HK-102X	C CAPACITOR	1000pF 50V K	
C733	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C801	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C802	NCB31EK-103X	C CAPACITOR	0.01uF 25V K	
C803	NDC31HJ-100X	C CAPACITOR	10pF 50V J	
C804	NDC31HJ-120X	C CAPACITOR	12pF 50V J	
C805	NCB31CK-683X	C CAPACITOR	0.068uF 16V K	
C807	QERF1CM-106Z	E CAPACITOR	10uF 16V M	
C821	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C822	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C823	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C824	NCB31HK-221X	C CAPACITOR	220pF 50V K	
C861	QEKJ0JM-227Z	E CAPACITOR	220uF 6.3V M	
C862	NCB31EK-823X	C CAPACITOR	0.082uF 25V K	
C901	QEZ0622-338	E CAPACITOR	3300uF	
C902	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C903	QEKJ1CM-226Z	E CAPACITOR	22uF 16V M	
C904	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C905	QERF1CM-226Z	E CAPACITOR	22uF 16V M	
C906	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C907	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C908	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C909	QERF1AM-107Z	E CAPACITOR	100uF 10V M	
C910	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	
C911	QERF1AM-227Z	E CAPACITOR	220uF 10V M	
C914	NCB31EK-104X	C CAPACITOR	0.1uF 25V K	
C915	NCB11CK-225X	C CAPACITOR	2.2uF 16V K	
C916	QERF1HM-225Z	E CAPACITOR	2.2uF 50V M	
R101	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R102	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R151	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R152	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R153	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R154	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R155	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R156	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R201	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R202	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R251	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R252	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J	
R253	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R255	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R256	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R301	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R302	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R303	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R304	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R307	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R308	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R321	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R322	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R323	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R333	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R334	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R336	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R401	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R402	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R403	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R404	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R407	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R408	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R433	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R434	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R436	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R501	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R502	NRSA02J-220X	MG RESISTOR	22Ω 1/10W J	
R503	NRS181J-393X	MG RESISTOR	39kΩ 1/8W J	
R504	NRSA63J-392X	MG RESISTOR	3.9kΩ 1/16W J	
R505	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J	
R506	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J	
R508	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R509	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R510	NRSA63J-823X	MG RESISTOR	82kΩ 1/16W J	
R511	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	
R512	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R513	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R516	NRS181J-623X	MG RESISTOR	62kΩ 1/8W J	
R524	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R525	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R526	NRSA63J-120X	MG RESISTOR	12Ω 1/16W J	
R541	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J	
R542	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R543	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R544	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R545	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R546	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R547	NRSA63J-274X	MG RESISTOR	270kΩ 1/16W J	
R548	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J	
R550	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R551	NRSA63J-202X	MG RESISTOR	2kΩ 1/16W J	
R552	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	
R553	NRS181J-0R0X	MG RESISTOR	0Ω 1/8W J	
R554	NRS181J-513X	MG RESISTOR	51kΩ 1/8W J	
R555	NRS181J-332X	MG RESISTOR	3.3kΩ 1/8W J	
R557	NRSA02J-151X	MG RESISTOR	150Ω 1/10W J	
R558	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R559	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	
R560	NRS181J-101X	MG RESISTOR	680Ω 1/8W J	
R561	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R562	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R563	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R564	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R567	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R568	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R569	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R570	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R571	NRS181J-104X	MG RESISTOR	100kΩ 1/8W J	
R573	NRSA63J-124X	MG RESISTOR	120kΩ 1/16W J	
R574	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	
R575	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	
R576	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R579	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R581	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R582	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R583	NRSA63J-105X	MG RESISTOR	1MΩ 1/16W J	
R596	NRSA02J-822X	MG RESISTOR	8.2kΩ 1/10W J	
R701	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R703	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R708	NRS181J-822X	MG RESISTOR	8.2kΩ 1/8W J	
R725	NRSA63J-820X	MG RESISTOR	82Ω 1/16W J	
R733	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R734	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R735	NRS181J-152X	MG RESISTOR	1.5kΩ 1/8W J	
R736	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R737	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R791	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R792	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	
R793	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R794	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R795	NRS181J-150X	MG RESISTOR	15Ω 1/8W J	
R796	NRS181J-150X	MG RESISTOR	15Ω 1/8W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R797	NRS181J-100X	MG RESISTOR	10Ω 1/8W J	
R798	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	
R801	NRS181J-103X	MG RESISTOR	10kΩ 1/8W J	
R803	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R804	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R805	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R807	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R808	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R809	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R811	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R812	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	
R813	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R814	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R815	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R817	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R818	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	G200
R822	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R823	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R824	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R825	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R826	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R827	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R828	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R829	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
R830	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R831	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R832	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R833	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R834	NRS181J-223X	MG RESISTOR	22kΩ 1/8W J	
R835	NRS181J-472X	MG RESISTOR	4.7kΩ 1/8W J	
R836	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R840	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R841	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R842	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R843	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R844	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	
R861	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R862	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R863	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R864	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R901	NRSA63J-912X	MG RESISTOR	9.1kΩ 1/16W J	
R902	QRE141J-102Y	C RESISTOR	1kΩ 1/4W J	
R903	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R904	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J	
R905	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R906	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J	
R907	NRSA63J-393X	MG RESISTOR	39kΩ 1/16W J	
R908	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J	
R909	NRSA63J-273X	MG RESISTOR	27kΩ 1/16W J	
R910	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R911	NRS181J-473X	MG RESISTOR	47kΩ 1/8W J	
L501	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L561	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L562	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L701	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L801	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L802	QQL231K-4R7Y	INDUCTOR I/M	4.7uH K	
L901	QQR0703-001	CHOKE COIL		
CJ321	QNN0533-001	PIN JACK		AR200
CJ321	QNN0519-001	SURROUND JACK		G200
CJ701	QNB0100-002	CAR ANT JACK		
CN501	QGB2027M4-22S	CONNECTOR	B-B (1-22)	
CN801	VMC0334-001	CONNECTOR		
CN901	QNZ0611-001	16P CONNECTOR		
TU701	QAU0311-001	TUNER PACK		
X561	QAX0714-001Z	C RESONATOR	16.000MHz	
X801	QAX0759-001Z	CRYSTAL		

Switch board

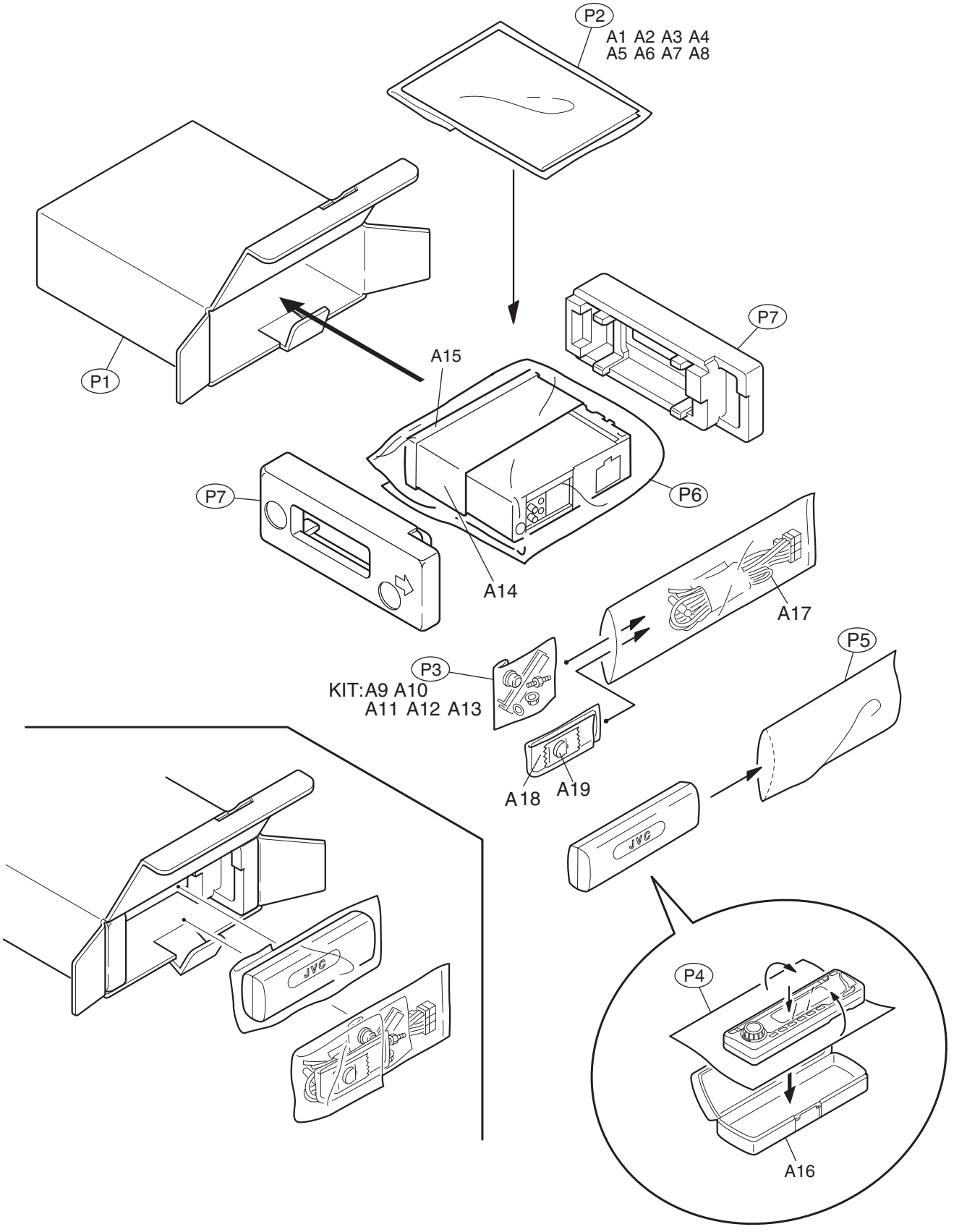
Block No. [0][2][0][0]

⚠ Symbol No.	Part No.	Part Name	Description	Local
IC661	PT6523LQ	IC		
IC681	RPM7338-V4	REMOCON RCV		AR200
Q670	2SB624/4/-X	TRANSISTOR		
Q671	UN2211-X	TRANSISTOR		
D630	SML-310LT/MN/-X	LED		
D631	SML-310VT/JK/-X	LED		
D632	SML-310VT/JK/-X	LED		
D633	SML-310VT/JK/-X	LED		
D634	SML-310VT/JK/-X	LED		
D635	SML-310VT/JK/-X	LED		
D636	LNJ308G81/1-3/X	LED		AR200
D636	SML-310VT/JK/-X	LED		G200
D637	LNJ308G81/1-3/X	LED		AR200
D637	SML-310VT/JK/-X	LED		G200
D638	SML-310VT/JK/-X	LED		
D639	SML-310VT/JK/-X	LED		
D640	SML-310VT/JK/-X	LED		
D641	SML-310VT/JK/-X	LED		
D642	SML-310VT/JK/-X	LED		
D643	SML-310VT/JK/-X	LED		
D644	SML-310VT/JK/-X	LED		
D645	SML-310VT/JK/-X	LED		
D646	SML-310VT/JK/-X	LED		
D647	SML-310VT/JK/-X	LED		
D648	SML-310VT/JK/-X	LED		
D649	SML-310VT/JK/-X	LED		
D650	SML-310VT/JK/-X	LED		
D651	SML-310VT/JK/-X	LED		
D652	NSPW310BS/B2RS/	LED		
D653	NSPW310BS/B2RS/	LED		
D661	MA111-X	SI DIODE		
D662	UDZS5.1B-X	Z DIODE		
D681	MA8062/M/-X	Z DIODE		AR200
C661	NBE20JM-106X	TA E CAPACITOR	10uF 6.3V M	
C662	NCS31HJ-681X	C CAPACITOR	680pF 50V J	
C663	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C681	NBE20JM-475X	TA E CAPACITOR	4.7uF 6.3V M	AR200
C686	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
C687	NCB31HK-223X	C CAPACITOR	0.022uF 50V K	
R601	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R602	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R603	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R604	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R605	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R606	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R607	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R608	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R609	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R610	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R611	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J	
R612	NRSA63J-681X	MG RESISTOR	680Ω 1/16W J	
R613	NRSA63J-911X	MG RESISTOR	910Ω 1/16W J	
R614	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	
R615	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	
R630	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	
R631	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R633	NRSA02J-681X	MG RESISTOR	680Ω 1/10W J	
R637	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	AR200
R637	NRSA02J-821X	MG RESISTOR	820Ω 1/10W J	G200
R639	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R641	NRSA02J-331X	MG RESISTOR	330Ω 1/10W J	
R643	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R645	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R647	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R649	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	

⚠ Symbol No.	Part No.	Part Name	Description	Local
R650	NRS181J-391X	MG RESISTOR	390Ω 1/8W J	
R651	NRSA02J-471X	MG RESISTOR	470Ω 1/10W J	
R661	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R662	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	
R663	NRSA63J-184X	MG RESISTOR	180kΩ 1/16W J	
R664	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R665	NRSA63J-513X	MG RESISTOR	51kΩ 1/16W J	
R666	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R667	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R668	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	
R670	NRS181J-471X	MG RESISTOR	470Ω 1/8W J	
R671	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R672	NRS181J-102X	MG RESISTOR	1kΩ 1/8W J	
R681	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	AR200
R682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	AR200
R686	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	
R687	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
R688	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J	
CJ601	VMC0335-001	PANEL CONNECTOR		
JS686	QSW0793-001	ROTARY ENCODER		
S601	NSW0124-001X	TACT SW		
S602	NSW0124-001X	TACT SW		
S603	NSW0124-001X	TACT SW		
S604	NSW0124-001X	TACT SW		
S605	NSW0124-001X	TACT SW		
S606	NSW0124-001X	TACT SW		
S607	NSW0124-001X	TACT SW		
S608	NSW0124-001X	TACT SW		
S609	NSW0124-001X	TACT SW		
S610	NSW0124-001X	TACT SW		
S611	NSW0124-001X	TACT SW		
S612	NSW0124-001X	TACT SW		
S613	NSW0124-001X	TACT SW		
S614	NSW0124-001X	TACT SW		
S615	NSW0124-001X	TACT SW		
S616	NSW0124-001X	TACT SW		
S617	NSW0124-001X	TACT SW		
S618	NSW0124-001X	TACT SW		

Packing materials and accessories parts list

Block No. M 3 M M



Packing and accessories

Block No. [M][3][M][M]

⚠ Symbol No.	Part No.	Part Name	Description	Local
A 1	GET0182-001A	INST BOOK	ENG SPA FRE	
A 2	GET0182-002A	INSTALL MANUAL		
A 3	BT-51034-1	J=REGIST CARD		
A 4	BT-51029-1	WARRANTY CARD		AR200
A 4	BT-51018-3	WARRANTY CARD		G200
A 5	BT-52006-2	WARRANTY CARD		
A 6	LVT0717-001B	TROUBLE SHEET(C		
A 7	GET0204-001A	IMPORTANT SHT		
A 8	GET0208-001A	DEMO MODE SHT		
A 9	VKZ4027-202	PLUG NUT		
A 10	VKH4871-001SS	MOUNT BOLT		
A 11	VKZ4328-001	LOCK NUT		
A 12	WNS5000Z	WASHER		
A 13	GE40130-002A	HOOK	(x2)	
A 14	GE20137-003A	MOUNTING SLEEVE		
A 15	GE20135-007A	TRIM PLATE		AR200
A 15	GE20135-004A	TRIM PLATE		G200
A 16	FSJB3002-00C	HARD CASE		
A 17	QAM0013-006	16P CORD ASSY		
A 18	RM-RK60	REMOCON UNIT		AR200
A 19	----------	BATTERY		AR200
KIT	SRW-200J	SCREW PARTS KIT	A9 A10 A11 A12 A13	
P 1	GE31054-001A	CARTON		AR200
P 1	GE31051-002A	CARTON		G200
P 2	FSPG4002-001	POLY BAG		
P 3	QPA00801205	POLY BAG	8cm x 12cm	
P 4	FSYH4036-068	SHEET		
P 5	QPA01003003	POLY BAG	10cm x 30cm	
P 6	QPC03004315P	POLY BAG	30cm x 43cm	
P 7	GE10070-002A	EPS CUSHION		